

sets in, blowing from the west, and gradually ascends the mountain sides; then, clouds rapidly form and soon there falls over the land rain that often continues till nighttime. About 9 or 10 p. m. the sea breeze ceases and shortly after that the descending land wind sets in; this is a dry wind; the clouds break away, the stars appear, the rest of the night is clear.

In the winter months the westerly winds of the Hawaiian Islands are caused by barometric depressions that pass in an eastward direction to the north of the islands. In such cases the wind begins to freshen up from the south and veers gradually to the southwest, many times accompanied by thunderstorms with cloudbursts of rain and not unfrequently increasing to a severe storm. After it has stormed for a while from this direction, the wind suddenly jumps to the northwest, then follows clearing-up weather, and soon after that the northeast trade again begins. The storm wind just described, which by the natives is called Kona, because it prevails principally on the Kona side, that is to say, the lee or the southwest side, has a duration of from a few hours to two or even three days. It is seldom strong enough on land to injure the houses, but occasionally interrupts navigation between the islands, as for example, in 1868. During the cruise of the English naval vessel *Petrel* among the Hawaiian Islands in September, October, and a part of November, 1875, the trade wind was often interrupted by southerly winds and calms with rain, except in the passages between the islands, where it seldom failed. On the west and southwest coast of Maui southeasterly winds prevailed, but which were occasionally replaced by the northeast trade which blows steadily over the isthmus of this island.

The island of Maui consists of a northwestern mountainous portion and a southeastern portion containing much higher mountains; between these is the connecting isthmus of comparatively low land to which the author of the Handbook evidently refers.

With regard to the depth of the layer of air involved in the movement of the northeast trade wind, the Handbook says:

On Mauna Loa and Mauna Kea, the two great mountains of the island of Hawaii, we do not generally find the trade wind blowing above 2,500 meters, no matter how strong it may be blowing below. From 2,500 up to 3,800 meters, calms prevail, and above that the current of wind has the opposite direction. In a corresponding manner the lower trade-wind clouds move from northeast to southwest, while the upper cirrus clouds move in the opposite direction, from southwest to northeast. The altitudes from 1,100 to 2,100 meters, are almost always on Hawaii enveloped in clouds, but from the upper portion of Mauna Loa (altitude, 13,760 feet) one looks out upon a sky that is always clear in summer and of wonderful purity. The summit of Haleakala, on the

island of Maui, more than 160 kilometers distant toward the northwest, appears sharp and clear above the ocean of clouds, like a dome above a field of snow. The storms that prevail on these peaks appear to come from the southwest or the northwest.—[C. A.]

MEXICAN CLIMATOLOGICAL DATA.

Through the kind cooperation of Señor Mariano Bárcena, Director, and Señor José Zendejas, vice-director, of the Central Meteorológico-Magnetic Observatory, the monthly summaries of Mexican data are now communicated in manuscript, in advance of their publication in the *Boletín Mensual*; an abstract translated into English measures is here given in continuation of the similar tables published in the MONTHLY WEATHER REVIEW during 1896. The barometric means have not been reduced to standard gravity, but this correction will be given at some future date when the pressures are published on our Chart IV.

Mexican data for September, 1897.

Stations.	Altitude.	Mean barometer.	Temperature.			Relative humidity.	Precipit. 'sation.	Prevailing direction.	
			Max.	Min.	Mean.			Wind.	Cloud.
Arteaga (Coahuila)...	Feet.	Inch.	° F.	° F.	° F.	%	Inch.	.....	.....
Barousse	5,414	.....	88.9	58.6	70.2	.....	0.55	.....	.....
Colima	1,656	.....	78.4	59.2	67.6	.....	0.75	.....	.....
Durango	6,241	24.10	80.6	45.0	66.2	51	1.82	.....	e.
Leon	5,934	24.34	80.1	43.0	65.1	60	2.44	ene.	e.
Linares (New Leon)	1,188	.....	91.4	51.8	71.4	71	3.37	.....	.....
Magdalena (Sonora)	4,948	.....	.....	.....	81.1	.....	5.55	ne.	ne.
Merida	50	29.89	96.6	67.1	80.8	77	1.69	n.	w.
Mexico (Obs. Cent.)	7,472	23.11	75.6	44.6	59.9	71	5.02	n.w.	ne.
Mexico (E. N. de S.) .....	.....	.....	80.9	46.4	61.9	66	5.91	ne.	.....
Monclova (Coahuila)	1,926	.....	91.0	64.6	81.9	.....	0.55	.....	.....
Monterey	1,626	25.27	91.9	54.0	76.1	78	5.40	e.	se.
Morelia (Seminario)	6,401	24.01	73.2	46.9	68.5	77	5.73	ne.	e.
Oaxaca	5,164	25.10	84.2	48.4	68.0	75	5.08	n.w.	e.
Parras (Coahuila)	3,986	.....	80.8	60.6	68.5	.....	1.50	.....	.....
Puebla (Col. Cat.)	7,112	25.40	79.5	38.8	67.5	59	7.00	.....	.....
Queretaro	6,070	24.24	77.0	45.9	68.7	66	3.30	e.	.....
Saltillo (Col. S. Juan)	5,390	24.89	84.7	49.1	67.8	62	0.47	w.	se.
San Luis Potosi	6,202	24.16	74.7	47.7	63.7	70	1.38	e.	se.
Sierra Mojada (Coah) .....	.....	.....	96.4	54.0	75.0	.....	0.28	.....	.....
Torreón (Coahuila)	8,730	.....	95.4	65.1	81.3	.....	1.38	.....	.....
Vaqueria (Coahuila) .....	.....	.....	88.1	50.5	66.9	.....	3.96	.....	.....
Zacatecas	8,015	22.57	74.3	40.3	61.8	71	3.89	e.	e.

METEOROLOGICAL TABLES.

By A. J. HENRY, Chief of Division of Records and Meteorological Data.

For text descriptive of tables and charts see page 357 of REVIEW for August, 1897.

TABLE I.—Climatological data for Weather Bureau Stations, September, 1897.

Stations.	Elevation of instruments.		Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.						Precipitation, in inches.		Wind.		Average cloudiness, tenths.	Total snowfall.	
	Barometer above sea level, feet.	Thermometers above ground.	Mean actual, 8 a.m. + m. and 8 p.m. + m.	Mean reduced.	Departure from normal.	Mean max. and min. + 2.	Departure from normal.	Mean maximum.	Minimum.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Total movement, miles.	Prevailing direction.	Maximum velocity.		
	Anemometer above ground.		Mean actual.	Mean reduced.	Departure from normal.	Date.	Mean maximum.	Minimum.	Mean minimum.	Greatest daily range.	Mean temperature of the dewpoint.	Days with 0.1 or more.	Miles per hour.	Direction.	Date.		
<i>New England.</i>																	
Eastport	76	69	74	29.96	30.05	+ .02	61.0	+ 0.1	89	10	62	38	1.99	— 1.2	22	7	6.7
Portland, Me.	103	81	89	29.96	30.06	+ .01	55.2	0.0	94	10	88	39	1.82	— 1.4	30	n.w.	17
Northfield	872	15	59	29.20	30.14	+ .07	59.0	+ 1.3	90	10	68	41	2.34	— 0.7	30	s.s.	5.5
Boston	126	115	181	29.38	30.12	+ .05	54.9	+ 1.2	94	10	68	43	1.43	— 1.4	36	n.w.	5.3
Nantucket	19	43	54	30.11	30.13	+ .02	63.1	+ 1.0	92	10	73	45	2.38	— 0.5	26	n.n.w.	4.0
Woods Hole	51	57					62.4	+ 0.9	82	11	68	45	0.98	— 2.0	30	s.w.	6.0
Vineyard Haven	20						64.6	+ 0.2	88	*	73	45	0.57	— 3.0	21	s.w.	5.1
Block Island	27	39	48	30.10	30.13	+ .05	63.4	+ 0.7	91	11	71	45	0.80	— 1.0	17	12	6.0
Narragansett Pier	10						61.8	+ 0.4	90	11	71	38	0.80	— 2.0	17	s.w.	3.0
New Haven	107	118	140	30.01	30.13	+ .04	63.0	+ 0.6	93	10	73	38	2.50	+ 0.7	23	s.w.	3.4
<i>Mid. Atlan. States.</i>							68.2	+ 0.7	93	10	73	38	2.42	— 0.7	23	24	3.3
Albany	97	84	113	30.05	30.10	+ .09	62.6	+ 0.3	94	10	73	38	1.34	— 1.8	31	n.l.	4.0
Binghamton	875	79	86	29.81	30.14	+ .05	60.4	+ 0.8	91	10	73	38	3.08	— 0.8	24	s.s.	3.9
New York	314	298	326	29.81	30.14	+ .05	65.4	+ 0.8	91	10	73	44	1.64	— 2.1	17	19	3.3
Harrisburg	377	94	102	29.77	30.17	+ .08	66.8	+ 2.4	95	10	78	45	1.30	— 2.8	20	n.w.	3.0
Philadelphia	117	168	184	30.03	30.15	+ .05	68.4	+ 0.8	96	10	78	45	1.30	— 3.2	27	s.e.	3.8
Atlantic City	52	68	76	30.10	30.15	+ .07	65.9	+ 0.7	94	11	74	41	0.86	— 3.1	21	s.e.	3.3
Baltimore	123	88	93	30.03	30.15	+ .05	68.8	+ 0.6	97	11	79	45	2.17	— 1.7	23	s.e.	2.3
Washington	112	59	76	30.05	30.17	+ .06	68.2	+ 0.8	97	11	80	43	1.54	— 2.2	20	n.w.	2.7
Cape Henry	5	34					72.4	+ 0.0	94	9	79	30	0.86	— 2.4	20	s.e.	2.1
Lynchburg	685	83	88	29.45	30.17	+ .08	70.6	+ 1.7	99	14	84	40	2.01	— 2.7	23	s.e.	2.8
Norfolk	57	88	93	30.11	30.17	+ .08	72.2	+ 1.0	99	11	81	49	5.249	— 0.6	26	n.e.	2.0
<i>S. Atlantic States.</i>							73.8	+ 0.0	95	11	81	49	5.83	— 1.6	21	11	5.6
Charlotte	773	68	76	29.34	30.14	+ .05	72.0	+ 2.3	97	14	84	50	0.90	— 2.5	24	s.e.	3.4
Hatteras	11	17	36	30.14	30.15	+ .08	73.7	+ 0.2	95	14	84	50	2.02	— 4.4	21	s.e.	4.1
Kittyhawk	9	12	30	30.13	30.14	+ .09	71.8	+ 1.4	89	18	75	50	1.61	— 3.0	23	17	3.6
Raleigh	375	93	101	29.77	30.15	+ .04	78.0	+ 2.8	94	14	84	52	2.61	— 4.0	26	s.e.	3.1
Wilmington	78	82	90	30.07	30.15	+ .08	78.0	+ 0.2	94	* 83	52	21	1.54	— 4.9	21	s.e.	4.1
Charleston	48	60	72	30.10	30.15	+ .09	75.4	+ 0.0	90	17	81	48	2.61	— 4.0	21	s.e.	4.6
Columbia	5						74.0	+ 0.2	100	15	85	45	2.49	— 4.0	21	s.e.	4.2
Augusta	180	88	103	29.94	30.18	+ .08	74.6	+ 0.3	98	12	79	45	3.68	— 4.0	24	n.w.	4.9
Savannah	87	63	88	30.04	30.18	+ .07	74.2	+ 1.3	92	17	85	45	2.82	— 4.0	22	s.e.	4.9
Jacksonville	43	69	84	30.03	30.06	+ .05	76.3	+ 1.4	94	18	84	49	2.82	— 4.0	21	s.e.	5.7
<i>Florida Peninsula.</i>							78.7	+ 1.8	94	21	84	49	2.82	— 4.0	21	s.e.	5.4
Jupiter	28	18	30	30.00	30.08	+ .02	77.8	+ 2.2	87	19	88	61	18.09	— 8.4	23	s.e.	7.2
Key West	23	42	50	29.99	30.01	+ .02	80.6	+ 1.4	90	* 85	54	23	9.11	— 1.7	26	s.e.	6.7
Tampa	36	60	67	30.00	30.04	+ .03	77.6	+ 1.7	90	* 85	54	23	10.78	+ 4.6	16	s.e.	5.4
<i>East Gulf States.</i>							77.5	+ 1.5	95	16	84	50	2.55	— 1.9	21	s.e.	5.0
Atlanta	1,131	93	126	28.98	30.15	+ .05	74.4	+ 2.9	95	16	84	50	0.14	— 2.8	24	s.e.	8.9
Pensacola	56	78	90	30.00	30.08	+ .08	77.8	+ 0.3	94	16	84	57	2.34	— 2.4	22	s.e.	4.5
Mobile	57	88	96	30.03	30.08	+ .05	77.9	+ 1.0	95	23	87	58	2.34	— 3.0	27	s.e.	4.9
Montgomery	221	107	129	29.86	30.09	+ .04	77.0	+ 1.5	96	22	88	53	1.06	— 4.5	25	e.e.	5.1
Vicksburg	254	65	73	29.81	30.07	+ .03	77.7	+ 2.0	95	15	88	57	0.28	— 3.2	31	s.e.	2.7
New Orleans	54	112	120	30.00	30.06	+ .05	79.4	+ 1.2	94	8	87	62	3.19	— 4.8	12	n.e.	4.2
Port Rads.	27						78.4	+ 1.4	90	3	84	66	8.60	— 2.6	15	10.125	5.8
<i>West Gulf States.</i>							78.0	+ 2.1					1.52	— 2.5	21	s.e.	3.8
Shreveport	249	77	84	29.82	30.08	+ .04	78.4	+ 2.0	100	4	90	47	2.80	— 2.6	26	s.e.	2.7
Fort Smith	461	80	72	29.59	30.09	+ .07	76.3	+ 3.9	94	4	89	48	2.32	— 2.7	24	s.e.	2.7
Little Rock	802	71	79	29.81	30.12	+ .06	77.9	+ 4.5	97	3	90	48	2.32	— 2.8	26	s.e.	3.0
Corpus Christi	20	42	50	30.03	30.05	+ .04	78.9	+ 0.4	92	13	85	58	2.32	— 2.8	21	s.e.	3.0
Galveston	42	85	96	30.03	30.07	+ .07	79.1	+ 0.4	91	4	84	63	2.40	— 2.8	21	s.e.	3.0
Palestine	510	54	61	29.54	30.07	+ .02	77.8	+ 2.4	100	4	90	49	2.40	— 1.9	26	s.e.	4.0
San Antonio	704	95	105	29.33	30.06	+ .04	77.5	+ 0.8	95	12	88	54	1.61	— 1.8	26	s.e.	5.0
<i>Ohio Val. & Tenn.</i>							72.1	+ 3.8					0.74	— 2.3	23	s.e.	3.4
Chattanooga	762	106	112	29.37	30.16	+ .07	74.4	+ 3.2	96	15	87	46	3.07	— 2.8	28	s.e.	3.4
Knoxville	1,004	80	88	29.12	30.16	+ .06	71.6	+ 1.7	95	16	85	45	3.07	— 2.8	35	s.w.	3.2
Memphis	399	140	154	29.71	30.12	+ .05	78.0	+ 5.6	96	11	88	49	3.07	— 2.8	36	s.w.	3.2
Nashville	545	129	134	29.57	30.14	+ .08	75.0	+ 4.6	96	16	88	44	3.07	— 2.8	31	n.e.	2.7
Lexington	969	75	122	29.11	30.14	+ .08	72.4	+ 4.7	96	14	85	40	3.07	— 2.8	25	s.w.	1.8
Louisville	525	114	20	29.60	30.16	+ .08	74.5	+ 5.1	100	14	88	42	3.07	— 2.8	33	s.w.	2.3
Indianapolis	828	154	164	29.31	30.17	+ .10	71.4	+ 6.2	96	12	85	41	3.07	— 2.8	36	w.	1.8
Cincinnati	228	152	229	29.51	30.17	+ .10	71.4	+ 3.2	95	15	84	42	3.07	— 2.8	36	s.e.	2.0
Columbus	824	87	100	29.30	30.16	+ .10	68.8	+ 3.6	97	* 84	37	21	3.07	— 2.8	36	n.e.	4.2
Pittsburg	824	116	128	29.31	30.19	+ .11	67.6	+ 1.4	96	13	80	56	3.07	— 2.8	34	s.e.	2.4
Parkersburg	636	77	84	29.53	30.19	+ .07	68.2	+ 2.4	99	15	84	37	3.07	— 2.7	34	n.w.	2.3
<i>Lower Lake Region.</i>							64.7	+ 2.1					0.74	— 2.2	21	s.e.	4.4
Buffalo	768	178	206	29.35	30.16	+ .11	63.2	+ 3.1	84	9	71	42	3.07	— 2.8	26	w.	18
Oswego	835	76	87	29.78	30.14	+ .08	61.0	+ 0.3	88	16	70	43	3.07	— 2.8	26	s.e.	10.4
Rochester	523	81	90	29.59	30.15	+ .10	63.0	+ 1.8	94	10	74	32	3.07	— 2.8	26	s.e.	9.4
Erie	714	92	102	29.42	30.17	+ .11	64.0	+ 1.1	88	9	72	40	3.07	— 2.8	26	s.e.	3.4
Cleveland	702	190															

TABLE I.—Climatological data for Weather Bureau Stations, September, 1897—Continued.

Stations.	Elevation of instruments		Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.										Precipitation, in inches.		Wind.			Average cloudiness, tenths.		Total snowfall.								
	Barometer above sea level, feet.		Thermometers above ground.		Mean actual 8 a.m. + 8 p.m.					Mean max. and min. + 2°.					Mean wet thermometer.		Total movement, miles.		Days with 30 or more.		Maximum velocity.									
	Anemometers above ground.		Mean reduced.		Departure from normal.		Departure from normal.		Maximum.		Date.		Mean maximum.		Minimum.		Greatest daily range.		Mean temperature of the dew-point.		Prevailing direction.		Direction.							
Up. Miss. Val.—Con.																														
Springfield, Ill.	644	82	92	29.46	30.13	+ .07	73.2	+ 7.5	96	12	86	40	20	60	37	60	53	57	0.85	- 2.8	2	5,191	se.	34	ne.	1	25	4	1.8	
Hannibal	584	75	107	29.54	30.14	+ .09	73.4	+ 8.2	98	12	97	36	21	59	45	0.90	2.7	1	4,972	sw.	26	sw.	15	27	1	2	1.3			
St. Louis	587	110	210	29.54	30.14	+ .09	77.4	+ 9.0	98	12	99	45	20	66	32	0.99	3.0	1	5,248	nw.	34	nw.	16	23	3	1	1.4			
Missouri Valley.							73.9	+ 9.0	98	12	98	44	20	65	32	0.92	- 1.5													
Columbia		4	84				75.8	+ 7.8	102	3	92	35	21	59	46	0.51	- 3.1	2	4,454	se.	25	w.	15	21	9	1	2.4			
Kansas City	968	78	95	29.12	30.11	+ .09	76.8	+ 9.4	98	12	88	47	20	64	32	1.38	- 2.1	3	4,640	s.	24	s.	14	24	12	3	2.0			
Springfield, Mo.	1,324	164	103	28.75	30.11	+ .08	75.8	+ 8.1	95	12	89	46	21	63	33	0.87	- 3.7		6,140	se.	26	sw.	16	20	7	1	2.8			
Topeka		81					75.4	+ 8.5	98	12	88	46	21	63	33	1.16	- 1.7													
Lincoln	1,199	74	84	28.81	30.08		74.3	+ 8.7	100	1	88	44	20	62	32	0.83	- 4.4	4	7,181	s.	34	n.	16	20	9	1	2.8			
Omaha	1,108	93	97	28.92	30.06	+ .05	75.3	+ 10.8	99	1	87	45	20	63	32	1.89	- 1.5		5,206	w.	29	dw.	16	21	8	1	2.1			
Sioux City	1,189	96	64				71.8	+ 7.1	102	1	86	37	* 17	58	42	0.51	- 0.6		8,852	se.	38	s.	8	23	4	3	9.2			
Pierre	1,460	50	61	28.43	29.94	- .05	71.2	+ 9.5	102	1	86	34	17	57	42	0.14	- 0.8		6,440	se.	47	s.	3	18	8	3	3.4			
Huron	1,306	56	57	28.63	30.00	+ .06	69.4	+ 10.3	99	1	85	33	17	54	44	0.15	- 0.3		8,971	se.	48	s.	3	18	8	3	3.4			
Yankton	1,224	52	58	28.74	30.01	+ .08	72.7	+ 9.8	97	1	86	37	17	60	41	0.89	- 2.0		6,851	s.	42	s.	8	21	7	3	2.6			
Northern Slope.							63.3	+ 5.1								0.38	- 0.6													
Harve	2,494	15	38	27.34	29.93	- .04	59.4	+ 4.8	86	22	76	33	16	43	46	0.66	- 0.5		6,291	w.	42	sw.	18	16	10	4	4.0			
Miles City	2,372	41	49	27.46	29.90	- .04	66.6	+ 6.6	98	22	82	36	16	51	53	0.12	- 0.6		4,585	w.	36	w.	14	17	8	3	3.4			
Helena	4,108	88	98	25.90	30.04	+ .05	57.8	+ 1.2	81	19	70	30	16	45	55	0.66	- 0.5		4,454	sw.	36	sw.	14	17	8	3	3.3			
Rapid City	3,251	46	50	26.08	29.94	- .08	68.8	+ 8.1	98	22	83	34	16	55	41	0.08	- 0.5		5,506	nw.	40	sw.	14	23	12	3	4.2			
Cheyenne	6,105	58	60	24.16	30.00	+ .08	61.8	+ 5.1	98	22	76	33	17	48	42	0.41	- 0.5		5,610	sw.	27	sw.	3	17	8	3	3.7			
Lander	5,872	28	38	24.75	30.04	+ .06	73.2	+ 1.4	102	5	74	31	17	42	45	0.15	- 0.6		8,759	s.	34	sw.	14	23	4	3	3.1			
North Platte	2,826	43	52	27.16	30.02	+ .02	70.8	+ 8.4	94	6	82	47	17	57	58	0.59	- 0.7		7,183	s.	41	s.	1	20	7	3	3.0			
Middle Slope.							72.3	+ 5.6								0.91	- 0.9													
Denver	6,290	79	151	24.85	30.02	+ .06	66.4	+ 5.0	88	2	80	40	16	52	88	0.44	- 0.8		4,887	s.	33	nw.	8	5	21	4	5.3			
Pueblo	4,713	74	81	25.37	29.99	+ .04	68.4	+ 4.7	95	1	84	41	17	58	41	0.77	- 0.4		4,397	nw.	41	n.	15	14	11	3	4.6			
Concordia	1,398	42	47	28.60	30.05	+ .01	75.3	+ 8.4	100	23	87	46	16	59	59	1.20	- 1.2		4,985	s.	26	s.	8	20	7	3	2.7			
Dodge City	2,504	44	52	27.50	30.04	+ .07	73.2	+ 5.8	94	23	80	44	20	61	54	0.60	- 0.8		8,024	s.	40	s.	8	24	15	1	2.7			
Wichita	1,251	78	85	28.38	30.08	+ .09	75.2	+ 6.2	102	5	95	55	21	62	58	1.22	- 1.5		4,896	s.	24	n.	16	19	9	2	3.1			
Oklahoma	1,218	54	58	28.34	30.10	+ .10	75.2	+ 5.6	96	5	87	49	21	63	58	1.23	- 1.7		5,777	s.	33	se.	14	23	4	3	2.1			
Southern Slope.							72.0	0.0								1.81	- 0.5													
Abilene	1,749	47	54	28.31	30.10	+ .09	74.7	+ 7.8	95	5	86	52	17	63	34	2.89	- 0.4		11	5,169	se.	30	ne.	16	13	11	6	4.1		
Amarillo	3,691	54	61	28.40	30.08	+ .08	69.2	+ 0.7	88	6	81	42	17	57	30	0.73	- 0.4		10,057	s.	40	n.	16	16	10	4	3.9			
Southern Plateau.							75.2	+ 1.2								2.37	- 1.4													
El Paso	3,767	10	110	26.27	30.01	+ .08	72.0	+ 1.4	89	1	88	54	28	62	30	2.73	- 1.6		10	5,714	e.	38	w.	8	18	9	8	4.6		
Santa Fe	6,998	47	50	23.44	30.06	+ .07	61.9	+ 2.2	81	1	73	43	17	52	58	2.49	- 1.0		8,018	e.	27	e.	8	23	7	4	5.1			
Phoenix	1,076	47	57	28.73	29.83		83.4	+ 2.6	102	5	95	55	14	71	36	8.57	- 3.1		8,214	e.	28	sw.	8	23	7	3	3.4			
Yuma	139	16	50	29.67	29.81	- .06	85.4	+ 1.2	105	5	79	62	14	72	39	0.20	- 0.3		0	4	w.	28	se.	21	20	9	1	2.2		
Middle Plateau.							61.4	+ 0.1								0.20	- 0.3													
Carson City	4,720	82	92	25.39	29.98		58.7	+ 1.5	88	24	74	31	8	44	29	46	- 32		T.	0	5,156	w.	40	s.	28	17	12	1	2.9	
Winnebago	4,340	59	60	25.63	29.98	+ .03	66.2	+ 0.4	88	29	77	46	26	49	50	0.12	- 0.8		4,687	w.	30	se.	30	7	7	6	3.1			
Salt Lake City	4,344	88	90	25.08	29.98	+ .03	66.2	+ 2.3	88	1	78	43	9	54	38	0.48	- 0.4		4,687	w.	30	sw.	7	15	7	6	3.4			
N. Pac. Coast Reg.							59.1	+ 0.1								1.17	- 0.3													
Baker City	3,470	49	55	26.48	30.03	+ .05	56.4	+ 0.0	86	19	69	35	16	44	41	4.6	- 36		1.11	- 0.4	9	4,081	s.	35	sw.	20	18	8	10	5.1
Idaho Falls	4,742	10	50	25.30	30.01	+ .05	59.0	+ 2.7	86	7	76	30	9	42	47	49	- 40		0.55	- 0.2	8	7,141	s.	50	sw.	13	14	10	6	4.0
Spokane	1,943	99	107	29.01	30.08	+ .05	57.8	+ 0.1	88	21	70	37	18	46	40	25	- 57		1.57	- 0.6	11	3,203	se.	25	se.	5	14	5	4	5.0
Walla Walla	1,018	65	73	28.94	30.01	+ .01	68.2	+ 2.1	91	21	74	41	16	52	35	54	- 47		1.44	- 0.5	8	3,231	n.	19	n.	2	16	12	2	3.5
Astoria	88	7	21	29.97	30.07	+ .07	53.5	+ 0.8	68	18	58	45	28	50	15	51	- 49		3.43	- 1.1										
Astoria	153	203	213	29.87	30.08		58.0	+ 1.9	78	17	64	45	15	52	32															

TABLE II.—*Meteorological record of voluntary and other cooperating observers, September, 1897.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Alabama.</i>																	
Alco †	98	42	75.2	0.39	In.	Strawberry	83	44	68.6	4.34	In.	Crescent City †	80	40	55.5	In.	2.54
Ashville †	101	43	74.7	0.30		Sulphur Spring Valley						Crescent City L. H.					2.50
Bermuda †	92	50	74.8	0.65		Texas Hill * ⁶	110	70	90.1	0.00		Daunt					0.10
Birmingham	100	50	78.0	1.15		Tombstone	85	58	72.1	5.23		Delano * ⁸	98	60	75.5		0.00
Brenton	95	41	75.3	T.	Tuba	94	43	68.0	1.84		Delta * ⁸	94	40	68.9		0.00	
Bridgeport †						Tucson †	99	62	80.2	2.71		Descanso * ⁶	86	24	61.4		0.56
Citronelle †	92	55	77.4	2.09		Walnut Grove						Drytown	96	38	67.6		0.30
Clanton †	92	46	74.9	0.70		Whipple Barracks †	87	40	68.0	3.47		Dunnigan * ⁸	96	43	73.1		0.08
Daphne †	94	47	76.4	3.57		White Hills	99	60	80.4	0.25		Durham †	92	46	65.6		0.30
Decatur †	97	39	73.7	0.00		Willcox * ⁸	96	65	73.4	1.15		East Brother L. H.					0.00
Demopolis						Williams	84	37	61.2	3.86		Edmonton * ¹	86	34	55.1		0.70
Elba †	94	44	74.6	1.32								Elsinore	99	44	73.8		0.28
Eufaula †	97	49	76.6	1.52								Escondido	105	44	70.9	T.	
Evergreen	92	47	75.4	0.40								Fallbrook * ¹	100	52	69.1	T.	
Florence †												Fort Bragg †					1.42
Florence †	97	41	75.9	0.00								Fort Ross	84	45	58.5		1.15
Fort Deposit †	94	53	76.8	0.85								Georgetown	87	44	65.6		0.30
Gadsden	100	45	75.9	0.04								Goshen * ⁸	99	49	72.2		
Goodwater †	102	47	77.2	0.94								Grand Island * ⁵	98	48	72.0		0.19
Greensboro †	96	49	77.0	0.74								Grass Valley					0.51
Hamilton	100	38	74.7	T.								Greenville †	90	27	57.2		1.48
Healing Springs †	96	48	74.6	0.57								Healdsburg * ¹	98	49	64.5		0.10
Highland Home †	91	49	76.4	1.24								Hollister	98	38	64.4		0.06
Jasper												Humboldt L. H.					1.40
Livingston	97	44	74.7	0.10								Indio * ⁸	105	58	73.2		2.10
Lock No. 4	99	46	75.5	0.73								Iowa Hill * ¹	90	47	63.8		0.45
Madison Station †	99	41	74.4	0.00								Jackson	86	42	63.4		0.19
Maple Grove	95	40	70.6	1.35								Join					0.15
Marion †	95	50	77.5	0.80								Keene * ⁸	92	46	65.8		0.00
Mount Willing †	94	50	75.8	2.00								Kennedy Gold Mine	93	42	67.5		0.37
Newbern †	98	49	77.0	0.52								King City * ⁸	100	46	66.4		0.00
Newburg *	100	44	76.0	T.								Kingsburg * ⁸	95	55	74.5		0.00
Newton †	94	48	72.8	1.24								Lagrange * ⁸	101	49	74.0	T.	
Oneonta	96	39	72.8	0.12								Laporte *†	76	35	52.3		1.26
Opellika †	97	51	75.7	0.96								Las Fuentes Ranch					0.24
Oxanna †	97	44	73.5	0.00								Lemoore * ⁸	97	50	72.2		0.00
Pineapple	98	44	76.6	0.40								Lick Observatory	80	39	60.4		0.07
Pushmataha †	96	47	76.6	1.22								Lick Kiln	104	47	75.2		0.00
Riverton †	98	47	77.2	0.00								Lime Point L. H.					0.26
Rockmills †	91	45	72.4	0.00								Lodi	95	44	68.6		0.16
Scottsboro †	98	39	73.4	0.07								Los Gatos b	90	40	68.8		0.06
Selma †	94	51	76.8	0.08								Lytton Springs	96	45	69.9	0.10	
Talladega * ¹	96	47	76.7	0.24								McMullin * ¹	100	46	73.8		
Thomasville	97	48	76.7	0.06								Malakoff Mine * ¹	82	45	63.1		0.57
Tuscaloosa †	95	52	76.6	0.31								Mammoth Tank * ⁸	108	75	90.6	T.	
Tuscumbia	98	42	75.6	0.00								Manzana					0.00
Union †	99	43	78.6	0.82								Mare Island L. H.					0.31
Union Springs †	94	51	76.0	0.80								Merced * ⁸	100	52	72.9		0.00
Uniontown †	96	54	78.4	1.70								Mills College					0.08
Valleyhead	94	40	73.1	0.15								Milton (near) * ¹	98	53	71.8		0.18
Warrior												Modesto * ⁸	105	53	75.5		0.00
Wetumpka	94	50	76.4	1.78								Mokelumne Hill * ⁸	50	65.4	0.13		
Wilsonville †												Mohave * ⁸	98	57	72.3		0.00
<i>Arizona.</i>												Monterey * ⁸	79	48	60.1		0.12
Antelope Valley												Mount Frazier					0.33
Benson * ⁸	94	67	79.4	2.10								Mt. Flat					0.00
Bisbee †	84	56	70.2	3.14								Napa b	100	39	66.8		0.26
Buckeye †	106	60	68.2	1.01								Needles	104	62	85.0		0.40
Buttes												Nevada City	83	39	61.0		0.60
Calabasas	90	57	73.4	2.17								Newhall * ⁸	108	50	71.9		0.00
Casa Grande * ⁸	101	75	85.4									North Ontario	92	44	70.2		0.00
Cedar Springs	95	66	73.2	2.08								North San Juan * ¹	92	44	63.1		0.74
Congress	94	64	79.4	1.58								Oakland a	98	49	68.0		0.16
Dragoon Summit * ⁶	89	65	77.5	2.27								Ogilby * ⁸	107	80	95.5		0.00
Dudleyville	95	60	80.2	0.98								Oleta * ¹	91	40	62.5		0.12
Farleys Camp †	100	61	79.2	4.57								Orangevale †	95	47	70.4		0.00
Flagstaff †	92	48	63.1	0.42								Orland * ⁸	103	56	77.0		0.10
Fort Apache	89	49	68.4	3.41								Oroville b	102	50	75.4		0.00
Fort Defiance	84	42	62.2	3.06								Palermo b	98	45	71.8		0.33
Fort Grant †	92	57	72.6	4.75								Paso Robles b	98	42	66.5		0.03
Fort Huachuca †	92	55	70.9	3.59								Peachland * ¹	90	42	61.7		0.13
Gilahead a * ⁸	105	78	88.7	T.								Piedras Blancas L. H.					0.20
Gisea	96	55	75.9	2.91								Pigeon Point					0.30
Glendale	101	58	81.6	1.79								Pilot Creek					0.38
Holbrook †	98	48	67.8	1.58								Pine Crest	98	51	67.6		0.45
Jerome *	86	57	69.5	3.00								Placerville	87	36	61.8		0.13
Lochiel * ¹	84 ^d	56	70.2 ^d	4.32								Point Arena Nuevo L. H.					0.45
Maricopa * ⁸	110	74	87.1	1.27								Point Arena L. H.					0.57
Mesa †	104	64	82.8	1.85								Point Bodega L. H.					0.28
Mount Huachuca	90	51	69.6	5.66								Point Conception L. H.					0.25
Music Mountain	101	49	77.0	0.46								Point Fermin L. H.					0.00
Natural Bridge												Point George L. H.					0.50
Oracle †	89	61	74.3	3.52								Point Hueneme L. H.					0.00
Oro												Point Lobos	85	50	57.9		0.09
Oro Blanco	94	57	73.8	2.16								Point Loma L. H.					0.00
Pantano * ⁸	89	62	75.5	8.56								Point Montara L. H.					0.27
Parker	110	53	84.4	1.96								Point Pinos L. H.					0.21
Payson												Point Reyes L. H.					0.47
Peoria †	99	65	82.4	1.75	</td												

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>California—Cont'd.</i>	°	°	°	In.	In.	<i>Colorado—Cont'd.</i>	°	°	°	In.	T.	<i>Florida—Cont'd.</i>	°	°	°	In.	In.
Riviera	95	50	70.7	0.11		Leroy†	94	34	68.3	0.41	T.	St. Francis Barracks	91	51	75.3	12.97	
Roe Island L. H.	—	—	—	0.10		Longs Peak	75	38	51.9	0.95	T.	Sebastian	91	54	78.5	23.01	
Rosewood	97	36	67.6	0.03		Loveland	—	—	—	—		Tallahassee†	91	50	75.6	3.98	
Sacramento a	92	46	67.9	0.14		Meeker†	90	33	58.7	2.33		Tarpon Springs†	96	52	78.9	5.15	
Salinas*	81	50	68.1	0.55		Millbrook†	90	32	57.2	1.55		Wausau	98	48	77.0	2.13	
Salton*	117	78	99.0	0.05		Minneapolis†	96	42	72.4	0.84		<i>Georgia.</i>					
San Bernardino†	99	44	71.3	0.13		Montrose†	87	40	68.1	2.45		Adairsville† ^c	97	43	78.2	0.18	
San Jacinto	95	38	69.4	0.16		Moraine†	80	31	55.9	0.78		Alapaha	95	49	75.8	3.56	
San Leandro*	95	54	65.2	0.10		Pagoda†	90	27	58.1	1.00		Albany†	97	51	76.6	0.78	
San Luis L. H.	—	—	—	0.15		Paonia†	—	—	—	—		Allentown†	95	49	74.6	0.78	
San Mateo*	92	54	66.4	0.00		Parachute†	88	38	64.0	2.55		Americus†	96	49	76.0	1.34	
San Miguel*	96	48	69.8	0.04		Pinkhamton	—	—	—	—		Athens†	97	50	72.7	0.64	
San Miguel Island	79	52	61.6	0.18		Rangely†	90	32	62.2	1.51		Bainbridge†	95	52	76.6	3.98	
Santa Ana*	95	52	75.4	0.00		Rico	78	33	61.1	5.80		Belleview	99	48	75.8	6.21	
Santa Barbara a	93	53	67.0	0.00		Hockyford	98	42	69.4	0.79		Blakely†	93	52	76.4	3.23	
Santa Barbara L. H.	—	—	—	0.13		Ruby	—	—	—	—		Brunswick	—	—	—	11.94	
Santa Clara a	—	—	—	0.08		Saguache†	80	36	56.6	1.30		Camak†	98	46	74.8	4.33	
Santa Cruz†	93	39	62.1	0.17		San Luis†	90	26	59.8	1.95		Canton†	—	—	—	0.00	
Santa Cruz L. H.	—	—	—	0.00		Santa Clara* ¹	92	37	53.1	4.25		Cartersville	95	45	72.4	0.26	
Santa Maria	87	44	64.1	0.10		Selbert†	—	—	—	—		Cedartown	96	37	72.4	0.14	
Santa Monica*	89	61	72.3	0.00		Smoky Hill Mine	86	29	57.8	1.95		Clayton†	93	39	68.6	0.47	
Santa Paula	91	45	65.3	0.45		Springfield	—	—	—	—		Columbus	—	—	—	0.70	
Santa Rosa*	90	43	65.5	0.10		Stamford†	74	30	45.1	3.39		Covington	93	48	70.4	0.98	
Saticoy	—	—	—	0.62		Steamboat Springs	88	36	57.8	0.20		Crescent	98	47	71.8	5.04	
Shasta	—	—	—	0.07		Surface Creek	90	36	53.1	2.25		Dahlonga†	96	42	71.1	0.65	
Sierra Madre	96	50	70.8	0.42		Thon†	97	31	65.6	0.71		Diamond	91	40	69.0	0.09	
Sneddens Ranch*	78	10	48.4	0.14		T. S. Ranch†	88	46	64.7	1.87		Eastman†	94	48	73.8	2.69	
S. E. Farallone L. H.	—	—	—	0.00		Twin Lakes	—	—	—	—		Elberton†	97	54	78.0	1.45	
Stanford University	93	44	65.6	0.00		Villas	—	—	—	—		Fleming†	96	46	72.8	11.24	
Stockton a	93	47	68.1	0.03		Walden	88	34	54.4	0.70		Fort Gaines	93	50	75.2	3.29	
Summerdale†	81	38	58.2	0.08		Waleet†	—	—	—	—		Franklin	94	49	74.8	0.11	
Susanville†	83	38	61.4	0.55		Wray†	101	38	60.7	0.73		Gainesville	98	44	71.2	0.65	
Sutter Creek*	91	34	63.1	T.		Yuma	—	—	—	—		Gillsville ^b	100	48	74.5	0.00	
Tehama*	98	56	73.0	0.18		<i>Connecticut.</i>	94	37	64.2	1.97		Greenbush	96	38	71.4	0.30	
Templeton*	98	40	65.4	0.00		Bridgeport	94	30	59.8	2.09		Griffin†	94	52	73.8	0.00	
Trinidad L. H.	—	—	—	1.06		Canton†	98	35	61.2	2.85		Hephzibah *† ^c	90	54	75.6	4.18	
Truckee*	80	28	53.8	T.		Colchester	—	—	—	—		Jesup	94	46	73.8	9.55	
Tulare b	—	—	—	0.66		Hartford†	—	—	—	—		Lagrange†	97	50	75.0	T.	
Tulare c	100	40	71.2	0.58		Middletown	13	37	63.5	2.44		Louisville	99	47	74.7	3.37	
Turnlock†	101	37	69.4	T.		New London†	89	36	62.3	3.74		Lumpkin	93	52	76.4	0.82	
Ukiah†	91	40	66.5	T.		Norwalk	90	32	61.4	2.24		Macon b	95	49	74.6	1.13	
Upper Lake	97	37	66.0	0.08		Southington† ^c	88	40	61.3	3.65		Marietta	98	45	73.2	T.	
Upper Mattole*	96	40	57.9	0.93		Storrs	89	32	60.0	1.39		Marshallsville†	93	54	76.7	1.16	
Vacavillea*	98	53	71.3	0.07		Voluntown†	90	30	60.3	1.82		Milledgeville†	92	54	75.4	1.58	
Ventura†	91	44	63.1	0.50		Waterbury	90	37	63.5	2.18		Miller	99	48	74.9	8.53	
Volcano Springs*	113	58	83.2	0.00		West Cornwall†	84	36	58.7	2.85		Morgan† ^a	94	47	74.4	4.05	
Walnut Creek	96	50	70.2	0.00		Windsor	87	36	60.8	1.56		Newman†	95	50	74.2	0.21	
West Palmdale*	103	49	70.4	T.		<i>Delaware.</i>	97	45	71.4	2.56		Point Peter	96	48	71.0	2.05	
Westpoint	—	—	—	0.12		Milford	—	—	—	—		Poulant†	97	47	75.4	2.43	
Wheatland†	93	45	68.9	0.12		Millsboro	94	42	67.2	1.51		Quitman†	95	48	74.8	2.39	
Williams*	96	48	72.3	T.		Newark	94	40	64.0	0.90		Ramsey	98	41	71.6	0.11	
Wilmington*	98	57	74.3	0.00		Seaford	95	42	69.0	1.16		Talbotton†	97	51	74.2	0.68	
Wire Bridge*	95	47	70.4	0.29		<i>District of Columbia.</i>	90	44	66.6	0.92		Tallapoosa	94	44	74.0	0.10	
Yerba Buena L. H.	—	—	—	0.20		Distributing Reservoir ^b	89	45	64.3	0.98		Thomasville†	95	51	76.8	2.99	
Yreka†	91	32	60.2	0.12		Receiving Reservoir ^b	89	45	64.0	0.98		Toccoat	91	49	67.1	0.50	
Yuba City*	92	56	72.4	0.23		West Washington	96	37	67.0	1.40		Union Point	94	42	70.4	2.10	
<i>Colorado.</i>	—	—	—	—		<i>Florida.</i>	80	49	75.4	20.88		Washington†	101	46	74.8	5.94	
Alma†	67	25	42.5	0.81		Amelia†	98	48	76.0	8.78		Waycross	96	48	75.6	7.48	
Antlers†	90	43	64.8	1.87		Archer†	98	48	76.0	8.78		Westpoint†	94	50	73.8	3.61	
Arkins.	85	42	66.8	0.84		Bartow†	95	53	75.6	11.94		Whitesburg†	94	50	73.8	0.45	
Boulder	—	—	—	0.68		Boca Raton†	96	64	75.8	15.97		<i>Idaho.</i>	—	—	—	—	
Breckenridge†	77	24	47.4	1.16		Brooksville†	91	50	74.9	7.97		Blackfoot†	87	30	59.0	0.66	
Canyon†	96	42	68.5	0.86		Carabelle†	93	52	76.9	10.60		Bliss	98	32	62.2	0.39	
Castlerock	89	32	64.9	0.24		Clermont†	97	52	78.6	8.48		Boise Barracks†	89	35	61.6	1.04	
Cheyenne Wells	96	37	69.0	0.92		De Funia Springs	95	46	75.5	1.94		Burnside†	92	34	57.9	1.59	
Collbran	—	—	—	2.63		Earnestville†	94	50	77.4	10.02		Coeur d'Alene	87	32	56.8	T.	
Colorado Springs†	87	37	62.4	0.74		Estero†	86	44	77.2	9.53		Corral *†	92	30	56.3	0.20	
Crook	98	31	67.5	0.63		Eustis†	93	52	77.3	12.72		Downey	95	33	56.5	2.07	
Delta	98	41	66.7	2.47		Federal Point†	91	51	75.0	17.30		Fort Sherman†	97	33	57.0	2.85	
Dumont†	—	—	—	1.42		Fort Meade†	92	53	77.2	16.38		Gimlet†	94	31	58.4	0.55	
Durango	84	41	61.4	3.55		Frostproof	95	55	79.4	10.01		Gray	98	36	58.4	—	
Fleming	—	—	—	0.45		Gainesville	90	65	75.7	20.35		Idaho City	96 ^t	39	57.7	1.27	
Fort Collins†	90	34	63.7	0.75		Gainesville	92	55	75.7	7.29		Kootenai†	95	33	54.6	1.07	
Fort Morgan ^b	93	34	64.6	0.62		Garrison†	92	57	78.8	9.49		Lakeview	71	38	54.4	2.08	
Fox	—	—	—	0.50		Haywood†	94	52	76.9	9.26		Lost River†	—	—	—	0.66	
Garnett	80	32	56.2	0.86		Huntington	99	52									

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Illinois—Cont'd.</i>						<i>Indiana—Cont'd.</i>						<i>Iowa—Cont'd.</i>					
Aurora <i>a</i>	99	36	69.9	0.85	Ins.	Connersville†	94	33	66.2	0.71	Ins.	Gardengrove	98	34	71.8	1.16	Ins.
Aurora <i>b</i>	98	35	69.2	0.89		Crawfordsville	98	30	68.4	0.25		Gladbrook	98	33	78.8	2.88	
Bloomington†	100	34	78.1	2.08		Delphi†	98	30	75.5	0.50		Glenwood†	99	34	75.2	2.08	
Bushnell†	101	39	74.4	1.16		Edwardsville*†	98	37	72.6	0.59		Grand Meadow*†	90	34	67.7	5.88	
Cambridge	92	38	70.1	2.37		Evansville†	99	33	68.8	0.65		Greene	96	30	70.2	3.28	
Carlinville†	101	38	76.5	T.		Farmland†	94	33	67.4	0.41		Greenfield	97	34	73.0	1.66	
Carlyle				0.09		Fort Wayne	96	32	67.4	0.41		Grinnell	96	33	69.7	2.55	
Carrollton	94	39	72.4	0.59		Franklin*†	95	40	67.0	0.73		Grundy Center	98	31	69.4	4.41	
Charleston	94	37	71.6	1.67		Greencastle†	98	40	71.4	0.54		Guthrie Center	95	29	70.5	1.01	
Chemung*†	95	31	65.2	1.18		Greensburg						Hampton	97	32	69.4	4.79	
Chester				0.75		Hammond†	93	34	65.6	0.31		Hawkeye					4.37
Cisne†	90	38	73.4	0.87		Huntington	96	34	67.3	0.98		Hedrick*†	97	42	72.8	1.18	
Clearcreek†	99	29	70.2	0.35		Jasper†	100	35	73.5	0.70		Hopewell†	97	38	73.6	3.32	
Cobden	101	39	75.0	1.06		Jeffersonville	96	30	71.2	0.41		Humboldt†	97	37	70.4	0.70	
Cordova	96	39	70.4	0.91		Knightstown†						Independence†	94	33	67.6	2.70	
Danville	98	32	70.1	0.15		Kokomo†	98	35	68.1	1.20		Indianola†	98	35	74.2	1.59	
Decatur†	99	31	72.4	0.41		Lafayette†	98	31	70.8	0.05		Iowa City <i>b</i>	90	35	68.3		
Dixon†	98	34	70.8	2.00		Laporte	98	33	65.8	0.33		Iowa Falls†	94	39	69.1	3.44	
Dwight†	96	35	69.5	0.81		Logansport†	94	33	66.5	0.28		Kenosauqua	97	37	75.7	1.20	
East Peoria†	97	31	66.6	1.15		Madison†	96	37	70.7	0.28		Knoxville	98	37	73.2	3.01	
Effingham†	97	38	72.9	0.25		Marengo†	100	34	70.5	0.45		Lamoni	97	38	72.7	0.65	
Evanson* ¹⁰	96	42	68.3			Marion†	99	30	68.9	0.58		Lansing	95	31	68.7	3.08	
Fort Sheridan†	95	32	68.2	1.10		Markle	94					Larchwood					3.06
Friendsgrove*†	44	71.8	1.10			Mauzy†	98	30	68.1	0.80		Larrabee	96	31	70.8	0.42	
Galva†	98	35	71.5	2.46		Michigan City* ¹⁰	90	40	67.3			LeClaire					1.21
Glenwood*†	101 ⁴	47	70.2	0.50		Mount Vernon†	100	41	75.6	0.65		Lemars	95	30	69.0	0.00	
Goleonda†	100	36	74.5	0.20		Northfield†	96	33	76.8	0.20		Lenoir*	98	44	72.6	1.32	
Grafton				0.11		Princeton*†	100	39	70.1	0.25		Logan†	98	34	71.6	0.08	
Grayville	97	44	75.4	0.65		Richmond	95	30	68.0	0.90		Malvern* ¹	106	31	71.1	1.47	
Greenville†	98	38	74.8	0.18		Rockport†	96	40	72.6	0.41		Maple Valley					0.87
Griggsville†	98	38	74.2	0.46		Rockville†	98	35	71.8	0.18		Maquoketa	92	33	67.6	2.11	
Halliday* ⁵	96 ⁴	44	75.3d	0.64		Salem						Marshall†	99	31	71.1	1.95	
Havana†	95	39	73.4	0.51		Scottsburg	98	35	70.2	0.16		Mason City	92	38	66.4	0.03	
Hillboro†	102	36	76.1	T.	Seymour	96	42	71.4	0.80		Millman	97	38	68.4	2.00		
Iron	97	35	73.6	0.79		Sheibyville	95	39	69.9	1.30		Monticello	98	33	72.4	2.11	
Joliet†	101	34	71.9	0.63		South Bend†	98	32	69.8	0.23		Moar	100	31	71.7	0.64	
Jordans Grove†	97	37	74.0	0.27		Syracuse†						Mount Pleasant* ¹	92	37	72.4	0.78	
Kankakee†	98	42	67.1	0.20		Terre Haute†	98	46	74.2	0.30		Mount Vernon a* ¹	94	37	69.7		
Kishwaukee	97	29	66.8	0.62		Tipton	97	29	68.5	0.05		Mount Vernon b	93	34	68.7	5.09	
Knoxville a	97	34	71.0	2.05		Topeka†	94	31	68.9	0.14		New Hampton	90	30	67.2	4.04	
Lagrange†	94	38	67.8	0.80		Valparaiso†	98	36	69.6	T.		Newton†	98	34	71.2	2.96	
Laharpe* ¹	100	33	73.8	1.39		Vevay	97	39	72.2	T.		North McGregor					6.68
Lanark*†	94	32	66.8	1.54		Vincennes†	103	40	74.8	1.62		Northwood	91	30	66.6	2.70	
Lexington	96	32	70.2	0.70		Warsaw†	98	31	66.8	0.19		Odebolt					0.84
Loam†				0.12		Washington†	102	39	73.8	0.59		Odgen	97	36	71.9	3.06	
Louisville†	97	37	72.8	0.34		Winamac	100	30	68.1	0.53		Osage* ¹²	94	32	62.6	3.73	
McLeansboro†	99	37	73.8	0.63		Worthington†	98	35	71.2	0.94		Osceola	98	35	74.0	1.34	
Marthaville†	98	34	71.4	0.47							Oskaloosa†	100	31	72.4	0.54		
Martinton†	99	29	70.6	0.29							Ovid†	101	38	75.3	0.69		
Mascoutah* ⁵	97	37	74.5	1.00							Plover	99	30	72.0	0.59		
Mattoon* ¹	95	38	69.9	1.23							Pringhar	94	35	69.6	1.12		
Minonk†	97	32	70.0	1.90							Red Oak	96	34	72.4	0.92		
Mommouth†	99	35	71.6	2.78							Rock Rapids	98	36	69.9	1.67		
Morrisonville†	94	34	70.4	0.29							Rookwell City	97	30	69.6	1.73		
Mount Carmel†				0.80							Sac City†	97	39	70.4	T.		
Mount Pulaski	99	36	78.1	1.21							St. Charles	98	37	73.6	2.04		
Mount Vernon	100	38	73.2	0.41							Seymour†	103	33	74.9	0.80		
New Burnside†	99	36	75.0	1.18							Sibley	98	29	68.6	1.15		
Olney a	99	36	72.5	0.71							Sidney	97	41	74.1	0.88		
Oswego* ¹	96	40	67.1	0.86							Sigourney	99	34	72.6	1.68		
Ottawa†	99	37	70.5	1.89							Spencer	94	27	69.0	0.71		
Palestine†	98	38	71.0	1.60							Spirit Lake†	100	35	72.0	0.49		
Pana	98	34	72.6	1.04							Stuart	96	39	71.5	1.48		
Paris	98	37	73.6	0.38							Toledo	98	30	70.2	1.90		
Peoria a†				1.18							Villisca†	98	33	70.4	1.53		
Peoria b†	97	35	72.8	0.93							Winton* ¹	94	33	68.5	2.67		
Philo†	98	27	68.6	0.45							Washington	98				0.78	
Plumhill†	99	40	75.3	0.50							Washta	97				2.77	
Rantoul†	100	34	71.2	0.68							Waterloo	98	32	69.9	3.08		
Reynolds†	97	35	71.0	2.99							Waverly	98	34	69.6	3.08		
Riley†	95	35	68.8	1.15							Webster City	98 ³	34	67.6	1.68		
Robinson†	100	35	73.3	0.37							Westbend*†	97	39	68.2	1.04		
Roundgrove†	99	34	70.8	2.16							West Branch	98	32	69.0	3.65		
St. Charles*†	95	40	69.9	0.60							Whitten*	97	33	68.5	2.45</td		

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
Kansas—Cont'd.	°	°	°	In.	In.	Kentucky—Cont'd.	°	°	°	In.	In.	Maryland—Cont'd.	°	°	°	In.	In.
Dresden ^{*6}	100	45	76.4	1.93		Princeton.....	100	36	74.5	T.		Smithsburg.....	90	38	65.5	2.41	
Elgin ^{*1}	98	47	75.1	1.30		Richmond ^t	100	38	72.6	0.53		Solomonst.....	92	47	72.5	0.50	
Ellinwood ^t	96	46	73.0	1.43		Russellville ^t	103	38	75.9	T.		Sunnyside.....	90	24	60.4 ^b	3.37	
Emporia ^t	95	47	73.4	2.50		St. John ^t	99	37	70.6	0.08		Taneytown ^t	100	.....	.....	2.59	
Englewood ^t	99	45	72.8	0.57		Sandyhook.....	.....	.....	.....	0.49		Van Bibber.....	92	41	66.1	1.22	
Eskridge.....	99	42	76.0	0.98		Scott.....	100	41	71.8	1.20		Western Port.....	97	32	64.4	1.84	
Eureka ^t	98	44	72.0	1.17		Shelby City.....	105	38	73.0	0.00		Woodstock.....	90	39	65.5	1.88	
Eureka Ranch ^t	103	44	74.2	1.11		Shelbyville ^t	102	38	72.5	0.39		Massachusetts.	.....	.....	.....	.....
Fall River.....	98	43	75.0	2.34		Southfork ^t.....	.....	.....	.....	65.0	0.84	Amherst.....	88	31	59.3	1.93	
Fort Riley ^t	100	46	76.8	0.77		Vanceburg.....	95	37	67.0	0.45		Bluehill (summit).....	89	38	60.5	2.18	
Fort Scott ^t	100	40	76.0	0.51		Williamsburg ^t	97	34	67.4	T.		Chestnut Hill.....	94	35	62.6	8.00	
Frankfort.....	102	37	73.4	0.75		Louisiana.	.....	.....	.....	.....		Concord ^t	93	33	59.5	2.99	
Garden City ^t	98	44	72.0	0.33		Abbeville.....	92	50	76.9	2.95		Fitchburg.....	92	35	60.4	1.94	
Garfield.....	101	43	73.6	0.67		Alexandria ^t	97	41	76.4	0.97		Framingham.....	90	35	62.4	2.51	
Gibson.....	96	50	70.5	0.18		Amitie ^t	96	50	77.8	1.10		Groton.....	90	35	60.6	2.85	
Grove ^{*1}	98	46	73.6	3.42		Bastrop ^t	100	43	77.8	1.60		Hyannis ^{*1}	91	40	62.6	1.05	
Grainfield ^{*6}	96	48	73.1	2.70		Baton Rouge ^t	96	44	77.0	1.91		Lawrence.....	94	38	62.3	2.48	
Grenola.....	99	39	74.0	1.09		Calhoun.....	97	48	76.4	1.62		Middleboro.....	93	36	61.7	3.04	
Halstead.....	94	44	70.6	1.13		Cheneyville ^t	97	41	75.6	0.85		Monson.....	93	35	60.2	1.31	
Hays.....	100	44	73.8	2.68		Clinton ^t	93	45	76.2	2.31		New Bedford ^a	90	40	63.0	0.88	
Horton.....	100	43	74.8	0.50		Como.....	96	44	75.5	T.		Springfield Armory.....	89	30	58.2	1.52	
Independence ^t	102	43	77.2	0.89		Covington.....	94	45	77.0	1.27		Taunton ^b	89	35	59.4	3.32	
Lakin ^t	100	43	71.8	0.60		Donaldsonville ^t	96	52	78.8	2.41		Wakefield.....	93	33	61.6	2.57	
Lawrence.....	94	45	74.4	1.53		Elm Hall.....	92	48	78.4	2.95		Westboro ^t	93	33	62.6	2.22	
Lebo ^t	99	45	75.0	2.75		Jeanerette.....	98	48	77.4	3.42		Worcester ^b	88	36	61.0	1.86	
Macksville.....	96	42	72.2	1.58		Lafayette ^t	95	45	76.1	4.58		Michigan.	.....	.....	.....	.....
McPherson.....	99	44	71.8	1.58		Lake Charles ^t	97	49	77.4	2.28		Adrian.....	96	28	65.6	0.90	
Manhattan ^a	104	44	75.9	0.53		Lawrence.....	93	58	77.2	3.04		Allegan.....	92	24	62.8	0.50	T.
Manhattan ^c	102	40	74.5	0.53		Liberty Hill.....	102	43	78.6	0.89		Alma.....	96	29	64.0	1.88	
Marion ^t	97	48	78.0	0.70		Mansfield ^t	101	37	75.6	1.50		Ann Arbor.....	96	35	65.8	1.36	
Meade ^t	99	40	74.5	1.45		Melville.....	92	50	77.2	1.70		Arbela.....	93	20	64.0	1.74	
Medicine Lodge ^t	98	46	78.0	1.77		Minden.....	100	41	78.7	0.10		Badaxe ^t	98	34	68.2	2.19	
Minneapolis ^t	103	44	74.6	1.01		Monroe ^t	100	46	79.2	0.10		Baldwin.....	96	28	61.2	1.67	
Morantown ^t	98	44	75.4	1.76		Oakridge ^t	100	42	77.5	T.		Ball Mountain.....	92	38	64.6	0.76	
Mount Hope ^{*1}	95	50	74.6	1.15		Oberlin.....	93	43	78.3	1.40		Baraga.....	95	27	61.6	1.75	
Ness City.....	99	46	74.8	1.10		Oxford ^t	99	37	75.3	1.40		Battle Creek.....	96	32	67.0	0.86	
Newton.....	99	48	75.8	0.82		Paincourtville ^t.....	.....	.....	.....	.....		Bay City ^b	95	34	64.4	0.69	
Norton.....	101	40	69.6	1.28		Plain Dealing ^t	98	44	77.5	3.85		Benton Harbor.....	95	35	65.2	0.87	
Norwich ^t	99	50	75.5	0.88		Rayne.....	96	45	77.0	2.86		Berlin.....	95	28	63.2	1.11	
Oberlin ^t	99	45	72.0	2.04		Robeline.....	98	38	74.4	0.48		Berrien Springs.....	92	32	67.9	0.51	
Olathe ^t	100	42	74.6	2.62		Ruston.....	98	51	80.0	1.80		Big Rapids.....	92	28	62.6	1.72	T.
Osage City ^t	98	41	73.4	2.11		Schriever.....	95	47	76.4	5.05		Birmingham.....	92	28	62.6	0.55	
Osborne.....	98	41	72.0	1.10		Shellbeach.....	92	55	78.4	4.08		Boon.....	92	27	60.7	3.49	
Oswego.....	105	41	79.2	0.05		Southern University ^t	91	58	75.6	2.40		Culumet.....	90	37	61.2	1.52	
Ottawa.....	98	39	73.9	2.42		Sugar Ex. Station ^t	92	55	78.0	3.66		Carsonville.....	95	26	63.6	0.57	
Phillipsburg.....	104	43	73.0	2.41		Sugartown ^t	97	47	77.9	1.16		Charlevoix.....	95	41	63.6	2.77	
Pleasant Dale.....	97	43	78.6	1.18		Venice ^t	89	61	77.6	3.68		Cheboygan.....	94	32	61.5	2.61	
Pratt.....	101	40	69.4	2.80		Wallace.....	91	59	78.5	3.57		Clinton.....	99	28	66.2	0.91	
Rome ^{*1}	95	49	73.4	1.31		Whitehall.....	97	46	77.7	2.98		Coldwater.....	96	28	65.8	0.31	
Russell.....	98	44	75.3	1.04		White Sulphur Springs.....	98	44	78.6	0.53		East Tawas.....	84	31	61.4	0.60	
Salina ^t	103	44	74.9	1.15		Bar Harbor.....	91	35	68.8	2.33		Elmire.....	96	32	64.4	1.61	
Scott City.....	98	39	71.2	0.98		Belfast ^{*6}	88	38	57.3	2.09		Escanaba ^t	84	34	62.4	2.00	
Sedan.....	98	41	74.0	1.52		Cornish ^t	90	34	57.5	3.15		Ewen.....	93	36	63.9	0.41	
Seneca.....	100	36	75.6	0.73		Fairfield.....	89	31	68.0	2.54		Fairview.....	93	36	63.9	0.41	
Sharon Springs ^{*1}	106	44	75.3	1.75		Flagstaff.....	90 ^c	27	55.26	8.72		Fitchburg.....	96	26	62.8	1.00	
Toronto.....	101	38	74.4	1.90		Fort Fairfield.....	88	28	52.2	2.80		Flint.....	96	25	62.7	0.84	
Ulysses ^t	98 ^d	40 ^d	73.0 ^d	0.40		Kineo ^t	88	35	57.4	2.62		Frankfort ^{*10}	85	45	63.8	0.00	
Viroqua ^t	97	44	73.0	0.08		Lewiston.....	93	35	60.4	3.43		Gladwin.....	94	36	60.8	0.60	
Wallace ^t	100	42	72.2	1.79		Mayfield.....	90	30	55.0	3.01		Grand Rapids ^b	95	26	65.4	1.11	
Wamego ^{*1}	100	42	76.8	0.28		North Bridgton.....	92	34	58.2	2.73		Grape.....	96	32	66.1	1.84	
Winona ^{*1}	100	45	68.4	2.75		Orono.....	90	28	55.2	2.65		Grayling.....	94	24	60.7	1.80	
Yates Center.....	99	39	74.0	1.78		Annapolis.....	91	42	69.9	2.17		Grindstone City ^{*10}	88	29	65.5	1.51	
Kentucky.	.....	.....	.....	.....		Bachmans Valley.....	94	35	64.4	2.08		Hannover.....	92	29	62.0 ^d	1.77	
Ashland.....	97	37	69.0	0.60		Boettchersville ^a	92	44	59.5	1.50		Harrison.....	93	34	63.4	1.05	
Bardstown ^t	100	35	73.9	0.58		Charlotte Hall ^t	92	43	69.4	0.95		Hart.....	96	38	65.6	1.58	
Blandville ^t	96	40	73.5	0.08		Cherryfields ^t	92	44	69.4	0.58		Hastings.....	95	29	64.8	1.17	
Bowling Green ^a	96	35	70.1	0.10		Chestertown ^t	90	48	65.9	1.28		Hayes.....	90 ^c	31 ^c	64.2 ^c	1.18	
Bowling Green ^b	97	44	75.1	0.08		Collegepark.....	97	36	67.1	1.78		Highland Station.....	95	27	65.1	0.46	
Burnside ^t	97	44	73.2	0.01		Cumberland ^b	95	43	68.4	1.60		Hillsdale.....	97	42	67.8	0.00	
Canton ^{*1}	100	42	74.2	T.		Darlington ^t	91	42	67.5	1.94		Holland ^{*10}					

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Michigan—Cont'd.</i>	o	o	o	In.	In.	<i>Minnesota—Cont'd.</i>	o	o	o	In.	In.	<i>Missouri—Cont'd.</i>	o	o	o	In.	In.
Mottville	100	25	67.2	0.23		New Ulm †	93	32	68.0	0.33		Harrisonville †	103	41	75.4	0.98	
Mount Clemens	97	23	65.2	0.51		Park Rapids †	90	25	61.8	0.43		Hastain	101	36	74.4	0.90	
Mount Pleasant b	95	31	64.0	0.93		Pine River	88	30	62.0	1.71		Hermann †	98	36	74.4	0.88	
Muskallonge Lake *10	90	36	59.9			Pokegama Falls	89	25	61.6	1.29		Houston	99	32	72.8	0.82	
Muskegon	80	28	64.4	0.90		Redwing	...	...	...	5.09		Houstonia	105	35	77.3	1.21	
Newberry	90	25	59.0	0.76		Reeds	...	...	...	2.98		Humansville	105	35	77.3	0.35	
North Manitou Island *10	88	40	68.6	...		Roiling Green	91	38	68.2	1.00		Irena	...	20	72.2	1.06	
North Marshall	94	28	64.8	1.29		St. Charles †	91	27	66.7	1.01		Ironton †	102	37	75.7	0.48	
Northport	96	43	64.8	2.85		St. Cloud	85	38	64.3	4.18		Jefferson City †	98	37	75.7	0.20	
Old Mission	91	34	61.6	2.68		St. Olaf	89	38	64.6	0.94		Kidder	98	36	74.2	1.53	
Olivet	90	34	64.6	0.77		St. Peter	87	38	67.6	2.30		Lamar	104	37	75.8	0.06	
Omer	95	25	60.4	0.85		Sandy Lake Dam	89	32	62.4	2.04		Lamonte	...	...	...	1.26	
Ottawa Point **10	85	39	62.2	...		Spring Park	89*	34	67.8	1.36		Lebanon	99	39	76.8	0.30	
Ovid	96	29	65.1	1.15		Tower †	88	18	57.2	1.60		Lexington †	101	36	76.8	1.13	
Owosso	97*	28	66.2	0.83		Two Harbors †	87	32	60.8	8.73		Liberty	99	40	74.9	1.80	
Parkville	...	...	...	0.73		Wabasha ^a	94	36	65.7	1.21		McCune	...	...	...	0.75	
Pentwater *10	86	46	66.9	...		Willmar	89	35	65.2	3.39		Malden	...	...	...	0.05	
Petoskey	98	35	63.8	2.25		Winnebago City	94	39	68.8	2.51		Mansfield	...	...	...	0.65	
Plymouth	96	37	66.2	0.89		Worthington	91	37	65.4	2.00		Marblehill	99	38	73.4	0.66	
Point Au Barques *10	93	33	62.2	...		Zumbrota ^c	90*	32	68.9	...		Marshall †	102	36	74.8	1.31	
Point Betsay *10	80	44	63.5									Maryville	101	38	74.0	1.08	
Pontiac	94	33	65.1	0.83								Mexico	108	36	75.4	0.56	
Port Austin	95	29	62.4	1.30								Mineralspring	98	36	73.2	0.50	
Powers	93	30	61.2	3.53								Montreal ^e	96	40	73.0	0.28	
Reed City	93	30	62.0	2.30								Mount Vernon	105	36	77.9	0.04	
Rockland	91	33	62.6	1.70								Neosho	96	34	73.1	T.	
Rogers City	98 ^d	38 ^d	60.6	2.45								Nevada ^c	98	38	76.4	0.11	
Romeo	96	35	65.7	1.23								New Haven ^c	96	45	77.7	0.55	
Saginaw	95	31	64.8	1.05								New Madrid	103	36	76.2	0.00	
St. Ignace	98	34	59.6	1.92								New Palestine ^c	96	58	79.0	0.48	
St. Johns	97 ^d	38 ^d	65.7	0.92								Oakfield	99	42	76.6	0.25	
Sand Beach ^c	94	39	62.2	0.88								Oakmound	...	...	...	1.30	
Ship Canal ^c	92	32	62.2	...								Oakridge ^c	98	71.0	0.80		
Sidnaw	88	28	56.5	...								Olden †	98	39	73.2	0.31	
Somerset	94	29	65.0	0.53								Oregon ^a	99	44	76.2	0.69	
South Haven	98	35	65.8	1.05								Oregon ^c	98	43	75.3	0.56	
Stanton	93	30	63.2	1.43								Osceola †	...	...	...	0.40	
Sturgeon Point *10	91	38	62.3	...								Oto	...	...	...	T.	
Thomaston	...	...	2.94									Palmyra ^b	96	40	76.0	0.29	
Thornville	98	38	65.6	0.62								Phillipsburg ^c	99	44	74.2	0.15	
Traverse City	95	38	63.3	2.00								Pickering ^c	100	36	68.4	0.98	
Two Heart River *10	94	34	61.0	...								Platte River ^c	98	40	68.6	0.88	
Valley Center	94	23	61.4	0.86								Poplar Bluff	100 ^d	36 ^d	78.6	0.04	
Vandalia	99	31	68.6	0.60								Potosi	92	27	66.2	0.43	
Vermillion Point *10	90	30	55.0	...								Princeton	101	36	75.6	0.85	
Waspepi	95	28	65.8	0.75								Rhinelander	95	36	78.4	0.53	
West Harrisville	91	30	61.0	1.07								Ricemond	96	45	75.4	1.08	
Wetmore	92	28	60.0	1.83								Rolla	...	...	...	0.92	
White Cloud	95	30	63.4	1.65								St. Charles	98	41	75.2	0.28	
Ypsilanti	91	31	63.4	1.75								St. Charles ^c	48	70.8	...		
<i>Minnesota.</i>												St. Joseph	...	...	...	0.91	
Ada†	98	31	65.2	1.10								St. Louis	98	36	72.4	0.13	
Albert Lea	92	29	67.2	3.41								Sarcocie ^c	100	34 ^d	68.1 ^a	0.03	
Alexandria †	91	34	65.3	3.73								Sedalia	100	34	74.5	0.35	
Beardsley	97	27	67.6	1.93								Seymour ^c	98	40	71.4	1.75	
Berndji	...	...	0.70									Sheibina	...	...	...	0.60	
Bird Island	90	36	66.4	3.03								Sikeston	98	37	78.2	0.13	
Blooming Prairie †	91	32	66.8	0.60								Stelladat †	102	36	75.6	0.60	
Bonniwell	89	36	65.1	6.50								Sublett	98	35	78.5	1.60	
Caledonia †	95	31	63.8	1.98								Trenton	98	39	72.6	1.88	
Camden	94	32	66.2	1.81								Unionville †	101	36	74.5	1.52	
Campbell	93	30	66.1	0.75								Vichy	100	36	75.3	1.37	
Collegeville	98	38	66.4	3.45								Virgil City	...	...	...
Crookston	93	30	63.6	1.02								Warrenton	100	37	75.0	0.23	
Detroit City	90	...	...	1.00								Wheatland	...	...	...	0.59	
Faribault	90	32	68.2	1.09								Willow Springs	96	33	72.0	0.26	
Farmington †	91	27	64.4	1.30								Zetton ^c	101	33	72.0	0.24	
Fergus Falls †	90	32	65.6	0.58								<i>Montana.</i>	...	...	...
Glencoe	91	31	67.0	3.87								Billings	98	31	63.0	0.40	
Grand Meadow †	95	31	67.0	0.77								Bozeman †	97 ^d	31 ^d	58.9 ^c	0.95	
Granite Falls	92	31	66.3	1.86								Bozeman Exper. Statn.	81	34	56.0	1.12	
Koochiching	90	26	60.6	0.20								Butte †	93	31	54.4	0.98	
Lake City	92	30	68.0	2.14								Castle	93	17	53.0	0.72	
Lakeside †	94	35	65.8	2.42								Chinook †	97	31	58.8	0.24	
Lake Winnibigoshish †	87	33	62.1	0.61								Choteau	93	25	57.9	0.98	
Lambert †	90	32	60.8	0.79								Fort Benton	93	26	60.6	0.61	
Lawrence	...	...	0.29									Fort Custer †	98	30	64.9	0.65	
Leech Lake	90	29	63.0	1.13								Fort Keogh †	102	28	65.4	0.04	
Lesueur ^c	94	30	64.6	...								Fort Logan ^c	84	32	55.1	0.48	
Long Prairie	91	39	63.9	0.28								Fort Missoula	93	32	55.2	3.42	
Lutsen	88	31	57.1	2.38								Glenclive †	103	32	65.8	0.10	
Luvernet	92	32	67.8	1.68								Greenwood	90	26	55.5	1.34	
Lynd	94	34	67.6	2.79								Greatfalls †	90	31	60.6	1.04	
Mapleplain	91	30	64.4	2.69								Hogan †	93	27	55.8	0.03	
Maplewood ^c	96	41	66.7	...								Kalispell	77	31	54.4	2.27	
Mazzeppa ^c	98*																

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Montana—Cont'd.</i>						<i>Nebraska—Cont'd.</i>						<i>New Hampshire—Cont'd.</i>					
Virginia City†	82	35	57.4	1.64	Ins.	Osceola	0	0	0	0.77	0.77	Nashua	0	0	0	0	Ins.
Yale	90	33	57.0	0.17	2.5	Ough†				0.63	0.63	Newton	24	32	60.1	2.07	
<i>Nebraska.</i>						Palmer b				2.60	2.60	North Conway	23	30	53.6	3.16	
Agee* ¹	100	46	70.7	2.68		Ravenna a	97	59	71.5	1.68	1.68	Peterboro	90	26	57.5	1.45	
Albion	88	40	64.8	0.06		Ravenna b ¹	93	44	68.4	0.20	0.20	Plymouth	92	27	57.3	0.93	
Alliance* ¹	92	40	64.8	1.82		Redcloud a				1.44	1.44	Sanbornton†	89	32	56.8	1.82	
Ansley†	95	35	72.2	1.87		Republican* ¹	100	44	67.8	1.28	1.28	Stratford	96	27	57.6	2.36	
Arapaho* ¹	100	45	70.7	4.88		Rulo ¹	98	50	75.6	0.90	0.90	Warner				1.40	T.
Arborville* ¹	101	46	72.8	1.02		St. Libory	95	42	73.2	3.07	3.07	West Milan	90	26	55.0	2.40	
Arcadia	100	38	70.2	1.45		St. Paul	97	43	73.4	1.41	1.41	<i>New Jersey.</i>					
Ashland a†	108	41	74.8	3.70		Salem ¹	98	44	71.8	1.10	1.10	Asbury Park	96	40	67.6	1.77	
Ashland b ¹	100	44	75.4	3.65		Santee Agency†	102	37	74.5	1.66	1.66	Barneget	99	45	69.3	1.48	
Ashton	98	40	73.5	1.94		Sargent				0.57	0.57	Bayonne	98	41	67.9	1.26	
Auburn* ¹	101	40	76.9	8.88		Schuylerville				0.80	0.80	Belvidere	97	37	64.6	3.52	
Aurora* ¹	100	47	73.4	2.07		Seneca* ¹	94	38	69.8	0.89	0.89	Beverly†	97	40	67.1	1.42	
Beatrice†	100	41	72.8	1.02		Seward* ¹	98	47	70.1	0.99	0.99	Billingsport*	90	47	66.7	1.05	
Beaver City†	106	43	73.5	2.16		Springview	98	40	72.8	2.01	2.01	Blairstown	96	39	65.8	3.97	
Benedict						Stanton ¹	97	43	70.6	1.18	1.18	Boonton	95	38	65.8	2.48	
Benkelman						State Farm	103	38	74.6	1.92	1.92	Bridgeton	94	43	69.0	0.49	
Bluehill* ¹	102	48	73.2	3.12		Stockham				1.40	1.40	Camden	93	45	65.9	0.86	
Brokenbow						Strang* ¹	100	48	76.6	1.58	1.58	Cape May	91	45	68.3	0.39	
Burchard						T.				0.90	0.90	Cape May C. H.†	91	41	67.2	0.55	
Burwell						Stratton				0.75	0.75	Charlotteburg	91	38	61.6	2.90	
Callaway†	97	37	67.4	1.15		Stromsburg				0.67	0.67	Chester	87	39	61.6	2.48	
Camp Clarke	103	30	67.3	0.41		Superior ¹	96	46	74.2	2.08	2.08	Clayton	93	42	67.3	0.46	
Central City						Syracuse				2.25	2.25	College Farm†	96	40	66.2	2.10	
Chester* ¹	104	50	73.8	1.05		Tecumseh b†	100	40	71.6	0.61	0.61	Deckertown	90	37	62.6	2.72	
Columbus†	94	39	68.9	2.22		Tekamah	98	32	71.8	0.57	0.57	Dover	93	38	61.4	2.19	
Corneia						Theford* ¹	98	34	69.1	2.50	2.50	Egg Harbor City	95	37	66.2	1.09	
Creighton* ¹	98	29	73.6	0.90		Turlington†	98	37	70.8	2.12	2.12	Elizabeth†	97	39	67.1	1.50	
Crete	99	43	73.4	1.11		Valentine†	99	36	70.3	0.67	0.67	Englewood	92	38	66.0	1.51	
Culbertson						Valparaiso				1.01	1.01	Franklin Furnace	88	38	61.6	3.09	
Curtis a	101	43	72.2	1.27		Wakefield	97	32	71.8	0.37	0.37	Freehold	88	39	64.2	1.64	
David City†	94	45	72.0	1.10		Wallace ¹	98	42	68.4	0.19	0.19	Friesburg				0.61	
Dawson	100	39	74.6	3.86		Weeping Water ¹	96	39	69.4	3.96	3.96	Gillette	97	39	62.8	2.40	
Divide						Westpoint†	97	36	71.2	0.20	0.20	Hammonton				0.94	
Dunning* ¹	97	48	74.4	0.46		Whitman				0.05	0.05	Hanover	90	38	63.1	2.10	
Eden						Willer ¹	94	46	75.5	1.38	1.38	Hightstown	93	41	65.1	0.77	
Edgar* ¹	98	48	75.1	8.15		Wilsonville ¹	100	46	73.8	2.70	2.70	Imlaystown	96	40	66.8	1.44	
Eiba						Woodlawn	96	42	74.4	0.78	0.78	Junction				1.58	
Ericson* ¹	98	47	74.4	0.87		York ¹	95	47	74.8	0.72	0.72	Lambertville	95	38	65.3	0.97	
Ewing†						<i>Nevada.</i>				0.22	0.22	Moorestown	95	40	66.6	1.42	
Fairbury†	101	37	72.4	1.87		Austin	79	34	58.1	0.07	0.07	Newark b†	95	42	65.9	2.20	
Fairmont†	101	43	73.2	2.81		Battle Mountain ¹	85	39	58.9	0.00	0.00	New Brunswick a	97	38	67.4	2.09	
Fort Robinson	97	38	67.3	T.	Beowawe ¹	89	40	65.0	T.	T.	New Brunswick b	92	40	64.2	2.10		
Franklin	113	43	75.8	2.46		Candelaria	89	37	68.8	0.51	0.51	Newton	91	39	61.4		
Fremont†	98	38	71.4	0.55		Carlin ¹	87	33	58.5	0.00	0.00	Ocean City	96	42	68.5	0.75	
Geneva†	101	42	72.3	2.94		Carson City	93	29	57.7	0.01	0.01	Oceanic	92	44	65.5	0.89	
Genoa	97	42	71.9	2.71		Cranes Ranch				0.19	0.19	Paterson	91	41	65.2	2.82	
Gering†	97	33	67.1	0.90		Darragh Ranch				0.16	0.16	Perth Amboy	96	40	65.9	2.15	
Gothenburg†	100	40	70.2	1.71		Downeyville	97	40	69.1	0.09	0.09	Plainfield	91	36	64.1	2.81	
Grand Island a ¹	102	48	78.3	1.80		Eliko ¹	90	35	55.8	T.	T.	Port Norris	93	37	67.4	0.21	
Grand Island b	100	45	72.6	2.15		Elko (near)	88	35	55.8	T.	T.	Rancocas				1.43	
Greely						Ely	80	32	54.4	0.04	0.04	Readington ¹	96	46	63.4		
Halgier						Fenelon ¹	80	40	55.8	0.10	0.10	Rivervale	94	30	62.0	2.88	
Hartington†	98	33	71.6	1.01		Golconda ¹	82	40	56.4	0.10	0.10	Roseland	96	34	64.4	2.88	
Harvard ¹	101	46	72.0	1.84		Halleck ¹	87	40	56.4	0.10	0.10	Sergeantsville	95	39	64.8	1.46	
Hastings ¹	99	47	71.9	2.33		Hamilton	90	25	57.2	0.00	0.00	Somerville	99	33	66.6	2.03	
Hayes Center						Hawthorne a ¹	89	42	66.7	0.03	0.03	South Orange	90	40	68.8	1.51	
Hay Springs	95	35	67.8	0.18		Hawthorne b	88	40	64.3	0.03	0.03	Staffordville				1.15	
Hedron†	101	40	78.6	1.25		Hot Springs ¹	90	46	68.3	0.02	0.02	Toms River	95	25	65.6	3.12	
Hickman						Humboldt ¹	85	40	61.8	0.11	0.11	Trenton	94	46	63.4	1.06	
Holdreg ^b * ¹	100	48	74.8	2.30		Keyzers Springs				0.05	0.05	Vineland	97	40	67.2	0.46	
Imperial a†	98	36	71.2	0.51		Lewers Ranch	88	29	58.0	0.08	0.08	Woodbine	95	35	65.5	0.90	
Indianola (near)* ¹	98	46 ^a	70.8 ^a	1.88		Loveland ¹	90	50	67.6	0.00	0.00	<i>New Mexico.</i>					
Kearney* ⁶	96	46	75.4	2.51		McGill	80	22	56.4	0.02	0.02	Albert	91	46	70.6	0.43	
Kennedy						Martins	88	29	57.5	0.26	0.26	Albuquerque ¹	88	51	68.2	1.22	
Kimball†	98	39	66.9	0.44		Midas	81	40	60.8	1.00	1.00	Angus V. V. Ranch	77	37	58.8	2.72	
Kirkwood ¹	101	47	72.0	1.60		Mill City ¹	85	35	58.0	0.00	0.00	Aztec ¹	90	44	63.6	2.79	
Lexington†	97	39	67.7	1.60		Monitor Mill	88	26	55.5	0.37	0.37	Bernalillo†	92	50	68.7	4.02	
Lincoln b†	99	42	74.8	1.89		Osceola	84	41	68.4	0.41	0.41	Buckmans	80	26	52.1	3.09	
Lincoln d	100	40	74.4	1.65		Palisade ¹	87	45	67.7	0.00	0.00	Clayton	90	43	68.6	0.85	
Lodgepole†	98	33	65.8	T.		Palmetto	82	27	57.4	1.27	1.27	Deming ¹	92	58	70.8	1.87	

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>New York—Cont'd.</i>	°	°	°	In.	In.	<i>New York—Cont'd.</i>	°	°	°	In.	In.	<i>North Dakota—Cont'd.</i>	°	°	°	In.	In.
Addison	91	32	60.0	2.90	0.63	Waverly†	95	31	61.9	3.42	Sheyenne	96	26	64.6	T.	T.	
Akron	90	32	59.7	2.88		Wedgewood	97	34	63.8	2.66	Steelie†	102	29	60.0	0.40		
Alfred	90	28	59.3	1.74		Westfield	87	27	62.8	0.58	Townert	102	30	62.8	0.11		
Angelica†	90	35	61.6	0.28		Westpoint†	95	30	60.6	2.90	University				0.10		
Appleton	91	35	61.6	0.28		Willlets point	96	42	66.1	1.67	Valley City†	92	27	60.7	0.15		
Arcade	88	29	59.2	1.18		<i>North Carolina.</i>					Wanpeton†	96	28	65.8	0.28		
Atlanta				2.34		Ashboro	98	33	68.8	1.18	White Earth†	100	20	65.8	0.25		
Auburn	95	32	62.0	3.29		Asheville†	95	35	67.1	0.54	Whites Ranch	108	20	65.8	0.92		
Avon	93	30	60.2	1.42		Beaufort†	93	56	74.4	2.51	Wildrice†‡	100	27	61.8	0.52		
Baldwinsville	91	26	61.6	1.20		Biltmore†	94	30	66.8	0.48	Willow City	100	27	61.8	0.34		
Bedford	89	31	61.3	2.75		Bryson City†					Woodbridge†	96	27	61.3	0.07		
Big Sandy * ¹⁰	84	36	58.4			Chapel Hill†	101 ^b	43	71.6 ^b	1.15	<i>Ohio.</i>						
Binghamton†	91	30	60.1	3.57		Edenton	94	46	71.6	1.16	Akron	95	36	65.8	1.07		
Bolivar	89	26	57.4	2.06		Experimental Farm	97	46	73.2	0.66	Ashland	90	38	62.5	0.18		
Bouckville	86	33	58.4	8.01		Fairbluff†					Ashtabula	88	39	64.2	0.54		
Boyd's Corners				1.74		Fayetteville†	98	45	73.0	1.42	Atwater				8.04		
Brentwood	93	35	61.6	2.30		Flatrock	89	33	63.4	1.81	Bangorville	94	36	67.4	0.65		
Brooklyn	90	44	66.6	1.90		Goldsboro†	95	47	73.0	0.85	Bellevontaine	96	41	72.0	0.57		
Canajoharie	87	37	61.7	1.98		Greensboro†	101	46	72.4	2.08	Bement				1.80		
Canton	89	25	57.2	1.34		Greenville	91	48	71.2	1.10	Benton Ridge	101	28	68.1	0.85		
Carmel	92	32	61.8	1.74		Henderson†	100	48	73.8	1.21	Bethany	99	40	72.5	0.39		
Catskill	90	37	62.2	3.99		Highlands	88	35	61.9	1.06	Bigprairie	94	29	68.6	1.10		
Cedar Hill				2.15		Horse Cove	93	41	68.0	1.24	Binola				0.79		
Charlotte * ¹⁰	86	39	58.7			Jacksonville	92	44		2.08	Bissells	94	34	65.3	1.30		
Chenango Forks				2.46		Lenoir *† ¹¹	92	44	68.0	2.14	Bloomington	95	35	68.0	0.49		
Cherry Creek				1.11		Linville†	82	38	68.0	1.83	Bowling Green	99	26	65.7	0.28		
Cooperstown†	86	31	57.5	3.40		Littletown†	96	41	70.5	0.25	Bucyrus	96	30	65.4	1.25		
Cortland	92	32	59.2	3.13		Louisburg†	96	42	71.8	0.65	Cambridge	96	27	63.4	0.47		
Dryden	91	29	58.6	4.46		Lumbertont	97	50	73.2	1.65	Camp Dennison	101	34	69.3	0.83		
Eagle Mills				1.25		Lynn†	92	42	70.3	2.42	Canal Dover	96	28	63.2	0.69		
Easton				1.82		Mania					Carrollton	93	35	64.7	1.07		
Elmira	94	34	62.7	3.70		Marion	98	40	69.1	0.59	Cedarville	98	27	69.8	0.66		
Fayetteville				1.46		Moncure†	97	44	73.2	2.39	Cefina	101	29	68.2	0.92		
Fleming	92	37	63.3	3.46		Morganston	93	43	71.0	2.02	Cherryfork	100	29	72.1	0.74		
Fort Niagara†	95	38	65.2	1.00		Mountainton†	100	40	70.6	1.60	Chillicothe†	96	37	67.2	0.99		
Franklinville	91	23	59.0	0.90		Mount Pleasant	98	36	67.2	1.23	Clareville	97	33	68.7	0.32		
Fulton				1.36		Murphy†					Cleveland a	88	38	64.0	1.14		
Garrattsville	86	32	56.8	3.14		Newbern†	92	58		0.60	Cleveland b	91	39	66.0	0.92		
Glens Falls	91	30	58.2	1.19		Oakridge†	94	39	70.2	1.05	Clifton	104	28	68.6	0.28		
Gloversville	88	30	58.2	1.78		Pantego†					Coalton	98	31	68.8	1.08		
Greenwich	88	30	59.0	1.55		Pittsburg†	98	43	69.2	3.25	Colebrook	92	32	65.8	1.27		
Haskinsville				2.73		Rockingham†	100	48	74.6	0.70	Dayton a	101	31	69.0	0.15		
Honey mead Brook	87	35	59.3	1.92		Roxboro†	96	35	70.4	1.10	Dayton b†				0.14		
Humphrey†	90	31	60.6	1.26		Salem†	98	39	71.1	0.60	Defiance	98	26	66.0	0.27		
Ithaca	93	36	61.7	4.73		Salsbury†	98	45	72.7	1.75	Delaware	96	31	65.8	0.85		
Jamestown	88	32	60.9	0.75		Saxon†	100	32	70.4	0.98	Demos	94	37	67.5	0.28		
Kings Station				1.65		Selma	97	46	72.6	0.25	Dupont	96	30	64.2	1.40		
Lake George	88	36	59.0	1.28		Settle	100	48	72.4	1.00	Elyria	97	35	66.5	1.81		
Lake Placid	85	33	57.5	2.35		Sloan†	97	49	73.0	2.04	Fairport Harbor * ¹⁰	99	46	66.2			
Little Falls	84	30	58.7	1.90		Soapstone Mount†	95	39	69.2	1.31	Fayetteville	97	26	68.8	0.73		
Lockport	88	35	61.8	0.90		Southern Pines a†	100	44	74.2	0.88	Findlay	102	29	68.8	0.79		
Lowville	88	29	57.5	1.73		Southern Pines b	100	48	73.4	0.79	Frankfort	95	30	65.2	0.35		
Lyndonville				0.29		Southport†	92	50	73.3	6.14	Garrettsville†	95	29	62.6	1.23		
Lyons	94	38	61.2	1.18		Tarboro	101	39	72.7	1.08	Granville	97	29	64.3	0.69		
Madison Barracks†	88	33	57.8	0.79		Waynesville†	91	80	62.2	0.19	Gratiot	94	30	65.0	0.75		
Middletown	90	36	61.6	2.86		Weldon†	96	40	71.1	4.30	Greenfield	94	37	67.6	T.		
Mohon Lake	86	39	62.0	1.89		Willeyton†	94	39	70.8	1.04	Greanhill	97	25	68.8	0.87		
Mount Morris				1.00		<i>North Dakota.</i>	Amenia	95	23	63.6	0.11	Greenville	90	35	65.0	0.79	
Newark Valley				4.71		Aneta	97	29	65.0	0.00	Hackney				0.50		
New Lisbon	88	26	56.0	3.19		Ashley†	97	26	65.9	0.06	Hanging Rock	95	35	69.5	0.62		
Niagara Falls				0.89		Bottineau	98	26	61.8	0.21	Hedges	100	37	69.1	0.28		
North Hammond†	90	34	60.4	1.70	Buxton	98	30	63.9	0.54	Hillhouse	98	31	68.4	0.88			
North Lake	84	30	55.1	2.56	Church's Ferry	100	30	64.0	0.38	Hillsboro†	101	31	68.8	0.42			
Number Four†	84	28	54.5	3.37	Coalharbor†	100	32	65.6	0.34	Hiram	91	36	65.4	0.76			
Ogdensburg	87	33	60.6	0.56	Devils Lake†	96	20	64.6	T.	Hudson	98	32	65.4	1.33			
Oneonta	90	29	59.4	3.84	Dickinson	98	27	64.6	0.36	Jacksonboro	105	39	73.6	0.45			
Oxford	90	27	58.4	3.13	Dunseith†	104	33	64.5	0.70	Kenton†	97	34	68.4	0.60			
Palermo	91	33	59.8	0.69	Ellendale	98	27	66.3	T.	Killbuck	98	28	68.2	1.08			
Penn Yan	95	36	63.3	1.90	Falconer	105	28	65.7	0.08	Lancaster	97	33	66.2	1.35			
Perry City	93	31	58.6	2.68	Fargo† ¹²	98*	29	65.3	0.57	Leipsic	98	26	68.7	0.76			
Phoenix				1.49	Forman†	99	28	68.8	0.25	Levering				0.66			
Pine City				3.48	Fort Berthold	99	30	64.8	0.45	Logan	105	26	69.0	1.26			
Pittsford	94	33	61.4	0.98	Fort Yates†	107	30	66.0	0.90	Lordstown	98	31	68.5	0.38			
Plattsburg Barracks†	95	28	57.9	1.90	Gallatin†	98	18	66.4	T.	McArthur	99	27	66.2	0.86			
Port Jervis	87	34	62.8	2.22	Glenullin	101	32	65.0	0.54	McConnellsburg†	100	34	67.4	0.77			
Poughkeepsie	93	31	61.4	1.83	Goetz†	101	29	65.0	0.08	Mansfield†				0.50			
Primrose	98	37	63.3	1.64	Grafton†	96	25	62.4	0.00	Marietta b	98	38	67.2	0.29			
Ridgewater	91	35	63.2	0.47	Grand Rapids†	98	26	64.8	0.14	Marion	99	31	68.0	0.94			
Rome	92	30	57.4	2.30	Hamilton†	95	24	61.0	0.87	Medina	99	30	66.0	1.14			
Romulus	97	37	63.2	3.95	Jamestown†	94	30	63.0	0.00	Mifflinton	100	28	65.6	1.07			
Rose				1.													

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Ohio—Cont'd.</i>						<i>Oregon—Cont'd.</i>						<i>Pennsylvania—Cont'd.</i>					
Orangeville	89	27	61.8	1.17	In.	Junction City ^{*8}	88	44	60.2	1.14	In.	Minford	90	40	68.6	2.95	In.
Ottawa	96	32	67.4	0.63		Lafayette ^{*8}	83	47	60.8	2.38		Oil City†	93	44	68.6	1.53	
Pataskala†	99	28	67.0	0.42		Lakeview†	80	31	54.2	0.86		Ottsville	93	35	68.6	1.88	
Philo	99	31	68.4	1.66		Langlois	87	44	60.4	3.37		Parker†	96	44	68.6	1.39	
Plattsburg	97	35	68.8	1.20		Lone Rock	89	25	52.6	1.79		Philadelphia ^b	96	44	68.6	1.11	
Pomeroy	98	35	69.4	0.45		McMinnville	88	38	58.6	0.52		Point Pleasant	96	40	68.6	1.24	
Portsmouth ^{a†}	97	35	69.5	1.78		Merlin ^{*8}	98	38	58.6	0.52		Pottstown	96	35	68.6	1.54	
Portsmouth ^b	97	35	69.5	1.78		Monmouth ^{*8}	86	39	61.0	1.50		Quakertown	95	36	68.6	1.50	
Richwood	96	32	63.2	0.52		Monroe	81	42	59.5	1.85		Reading ^a	96	35	68.6	1.54	
Ridgeville Corners	100	28	67.4	0.48		Mount Angel†	88	40	60.0	2.91		Renovo ^a	96	34	68.6	8.96	
Ripley	97	39	69.6	0.69		Nehalem	.....	.....	.....	3.70		Renovo ^b	93	34	63.7	2.69	
Rittman	92	27	66.4	0.52		Newberg	.....	.....	.....	0.87		Ridgway†	92	25	60.4	2.55	T.
Rockyridge	100	33	67.7	0.70		Newbridge	87	32	57.8	0.58		Saegerstown	96	26	60.4	1.55	
Rosewood	98	30	65.7	0.43		Newport	87	42	56.4	2.14		St. Marys	93	28	61.0	2.86	
Shenandoah	97	30	65.8	0.20		Pendleton	91	31	60.2	1.54		Salem Corners	98	36	62.4	3.88	
Sidney ^b	99	33	67.7	0.50		Prineville	86	28	54.4	0.89		Scranton	95	33	62.5	1.20	
Sinking Spring†	94	35	68.0	0.41		Riddells ^{*8}	85	42	61.5	0.62		Seisholtzville	.....	.....	.....	2.02	
Somerett†	98	42	70.9	0.97		Riverside	92	26	58.2 ^a	0.14		Selinsgrove	95	33	63.6	2.56	
Springboro	99	32	67.2	0.72		Salem ^{b†}	83	39	58.7	2.45		Shawmont	96	28	60.4	1.60	
Spring Valley	99	32	67.2	0.73		Sheridan ^{*8}	87	47	60.6	2.89		Shinglehouse	96	26	60.4	2.49	
Strongsville	95	28	63.4	1.13		Silver Lake	86	21	50.6	0.39		Sinnamahoning	.....	.....	.....	3.88	
Thurman	104	30	69.7	1.08		Silverton ^{*8}	88	42	60.2	.....		Smiths Corners	95	28	63.5	2.03	
Tiffin†	95	35	68.8	0.48		Siskiyou ^{*8}	88	42	60.2	.....		Somerset	95	28	63.5	1.38	
Upper Sandusky	96	32	67.0	0.25		Sparta	84	34	56.8	0.90		South Bethlehem	93	40	66.6	.....
Urbana	93	37	65.6	0.60		Springfield ^{*8}	85	35	58.3 ^a	1.86		South Eaton	90	35	61.6	2.24	
Vanceburg	97	35	68.2	0.35		Stafford	89	39	62.3	0.54		State College	92	36	63.7	3.60	
Van Wert	97	31	66.8	0.21		The Dalles†	86	31	54.6	4.03		Sunbury	.....	.....	.....	1.90	
Vermillion	92	36	66.2	1.45		Toledo	.....	.....	.....	0.52		Swarthmore	92	44	66.1	1.58	
Vickery	98	32	66.8	0.60		Umatilla	85	29	56.4	0.42		Swiftwater	86	32	59.4	1.86	
Walnut	.....	.....	.....	0.63		Vale	88	34	56.1	2.37		Towanda	94	33	62.1	2.93	
Warren	95	28	65.1 ^b	1.55		Vernonia	93	34	58.1	2.37		Uniontown	91	33	63.4	1.92	
Warsaw	99	26	65.4	0.58		West Fork ^a	92	38	58.1	1.88		Warren†	89	31	61.1	1.63	
Waunseen	99	28	67.6	0.76		Weston	90	31	58.2	1.70		Wellsboro†	88	30	59.6	8.40	
Waverly	102	32	69.2	1.54		Williams	90	31	58.8	1.02		West Chester	94	40	66.7	1.37	
Waynesville	98	39	68.2	0.88		<i>Pennsylvania.</i>	.....	.....	.....	.....		West Newton†	.....	.....	.....	2.17	
Wellington	98	32	66.5	0.72		Altoona	93	37	65.2	2.89		White Haven	92	31	60.7	1.25	
Westerville	92	38	65.0	1.16		Aqueduct	93	37	66.2	2.66		Wilkesbarre†	96	35	64.1	1.49	
Willoughby	.....	.....	.....	1.17		Beaver Dam	.....	.....	.....	1.90		Williamsport	91	37	68.0	2.99	
Wooster ^{b†}	96	28	68.8	0.29		Bethlehem	.....	.....	.....	2.10		York†	95	35	65.0	2.73	
Youngstown	94	30	61.3	1.04		Blooming Grove	90	31	61.4	3.58		<i>Rhode Island.</i>	.....	.....	.....	.....
Zanesville†	.....	.....	.....	1.01		Brookville†	.....	.....	.....	2.85		Bristol	86	44	63.0	1.85	
<i>Oklahoma.</i>						Browns Look	.....	.....	.....	1.84		Kingston	90	32	61.0	1.76	
Alva ^a	105	40	75.2	2.40		Cameron	.....	.....	.....	2.55		Providence ^a	92	40	63.9	1.77	
Anadarko†	103	42	75.7	0.85		Canonsburg	96	38	68.8	0.25		<i>South Carolina.</i>	.....	.....	.....	.....
Arapaho†	103	49	75.0	2.30		Carlisle	.....	.....	.....	2.97		Allendale†	98	48	73.6	8.89	
Beaver	.....	.....	.....	0.58		Cassandra	88	30	60.8	2.88		Anderson†	.....	.....	.....	1.88	
Burnett†	98	41	72.6	2.98		Cedarrun	.....	.....	.....	3.30		Batesburg†	95	45	72.8	4.20	
Clifton†	102	38	74.1	0.00		Centerhall†	90	37	68.0	4.06		Blackville†	100	47	74.4	4.07	
Edmond	.....	.....	.....	0.76		Chambersburg†	.....	.....	.....	8.08		Camden†	.....	.....	.....	3.33	
Fort Reno†	99	48	75.4	1.27		Coatesville	99	36	67.2	1.63		Central†	100	49	74.8	.....
Fort Sill	99	48	74.8	1.75		Confluence†	97	33	63.6	2.56		Cheraw ^a	98	46	72.8	1.16	
Guthrie	96	41	71.8	0.93		Coopersburg	95	42	66.4	2.07		Cheraw ^b	.....	.....	.....	2.11	
Hennessey	101	40	78.0	8.10		Davis Island Dam†	.....	.....	.....	2.41		Clemson College	98	47	72.6	1.32	
Keokuk Falls	99	40	75.2	0.50		Derry Station	98	31	64.6	2.02		Conway†	.....	.....	.....	3.64	
Kingfisher ^d	102	49	76.2	5.58		Doylestown	.....	.....	.....	1.67		Darlington (near)	.....	.....	.....	2.02	
Mangum†	101	49	73.6	2.78		Driftwood	.....	.....	.....	3.66		Edito†	.....	.....	.....	4.14	
Newkirk	100	47	76.2	2.50		Dubois	.....	.....	.....	3.88		Efingham†	.....	.....	.....	2.88	
Norman†	102	45	76.5	1.82		Duncannon	.....	.....	.....	2.59		Florence†	98	50	73.6	2.40	
Pond Creek	99	46	76.2	1.36		Dushore	90	29	68.0	2.53		Gaffney†	.....	.....	.....	2.10	
Prudence†	97	50	73.4	4.49		Dyberry	91	29	68.0	3.14		Georgetown†	90	54	74.4	3.60	
Sac and Fox Agency†	101	38	74.4	1.60		East Bloomsburg	.....	.....	.....	2.46		Gillisonville†	96	47	73.4	5.82	
Stillwater†	98	40	74.2	0.71		East Mauch Chunk	95	34	64.1	2.14		Greenville†	96	47	71.5	2.42	
Wankomis.	100	51 ^a	75.4 ^a	2.25		Easton	90	40	63.7	2.49		Greenwood	94	46	73.7	3.04	
Woodward	100	40	74.4	3.11		Edinboro ^{*1}	88 ^b	28 ^b	65.1 ^a	.....		Holland	98	42	72.0	1.76	
Oregon.	85	42	60.0	1.98		Ellwood Junction†	.....	.....	.....	1.70		Kingstree ^a	97	49	73.4	4.83	
Albany ^a	90	37	63.4	0.88		Emporium	90	30	61.8	2.73		Kingstree ^b	.....	.....	.....	4.88	
Arlington	90	37	63.4	0.88		Everett	93	32	63.5	1.55		Little Mountain	100	45	71.6	2.05	
Ashland ^b	93	34	60.2	0.66		Farrandsville	.....	.....	.....	4.63		Longshore†	98	45	73.0	2.10	
Aurora ^{*8}	84	41	57.7	2.95		Forks of Neshaminy ^{*1}	90	45	65.3	1.31		Mount Carmel†	.....	.....	.....	2.78	
Aurora(near)	84	35	57.5	2.64		Franklin	93	24	61.4	0.77		Pinopolis ^{*1}	91	53	71.7	3.34	
Bandon†	73	38	55.8	2.88		Frederick	.....	.....	.....	1.22		Port Royal†	91	53	75.1	4.57	
Bay City†	84	36	55.9	5.41		Freeport	.....	.....	.....	2.53		St. Georges†	95	49	74.1	2.15	
Brownsville ^b	89	50	63.8	2.31		Girardville	.....	.....	.....	2.48		St. Matthews†	99	48	73.6	5.52	
Burns	83	20	54.8	2.50		Grampian	90	28	62.1	8.10		St. Stephens†	96	46	71.4	2.18	
Burns (near)	85	27	57.0	1.14		Greensburg†	97	29	58.8	0.65		Santuck†	96	46	71.4	2.06	

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>South Dakota—Cont'd.</i>																	
Clark	°	°	°	Ins.	Ins.	Tennessee—Cont'd.	°	°	°	Ins.	Ins.	Utah—Cont'd.	°	°	°	Ins.	Ins.
Cross†	68	25	68.0	1.09	0.20	Tracy City	98	34	68.3	0.16		Corinne	88	40	64.4	1.36	
Doland	102	26	70.0	1.85	0.15	Trenton	97	35	73.8	T.		Croydon	88	38	60.6	0.90	T.
Edgemont						Tullahoma†	95	36	70.8	0.05		Ferron	90	40	62.6	3.03	
Eureka						Union City†			T.			Fillmore†	100	33	65.6	1.50	
Farmingdale						Waynesboro	99	38	75.0	0.00		Fort Duchesne†	91	40	62.0	4.61	
Faulkton	99	32	68.2	0.52		Texas.						Frisco	84	45	63.8	1.21	
Flandreau	95	32	69.0	1.40							Giles†	97	45	67.6	1.02		
Forestburg†	100	31	69.3	2.09							Heber	86	38	55.3	3.14		
Forest City											Huntsville						
Fort Meade†	103	36	69.0	0.01							Kelton*	85	48	64.0	0.00		
Gann Valley	100	33	68.3	1.01							Levan†	87	35	61.5	1.84		
Gary	98	33	67.8	1.32							Loat†	82	25	54.4	2.00		
Gaudyville	102	25	68.0	0.56							Logan†	84	37	63.8	1.23		
Greenwood											Manti†	96	32	64.2	2.85		
Highmore	102	34	72.4	0.41							Millerville						
Hotch City†	100	32	70.7	0.42							Minersville	87	37	65.0	2.07		
Hot Springs	92	27	65.7	0.80							Moab†	89	49	67.6	1.46		
Howard†	98	33	69.8	3.57							Mount Pleasant†	95	33	64.6	2.88		
Ipswich	101	27	67.7	0.55							Ogden a* ⁸	92	45	64.6	0.55		
Kimball†	100	37	71.5	3.47							Ogden b	89	38	65.0	0.88		
Leslie†	107	33	72.0	T.							Pahreah	94	42	65.3	2.20		
Mallette†	102	38	68.8	0.74							Park City†	74	30	64.0	0.28		
Mennio†	103	33	72.6	1.66							Parowan†	87	35	62.6	1.84		
Millbank	96	30	66.8	1.68							Pinto	83	27	58.6	2.17		
Mitchell†	100	33	68.8	0.91							Promontory*	88	47	61.4	0.34		
Oelrichs†	99	33	68.5	0.40							Richfield†	87	28	56.3	1.45		
Parker†	98	30	69.5	1.25							St. George†	100	39	72.5	1.00		
Parkston†	99	32	70.2	1.41							Scipio†	86	31	61.2	1.39		
Plankinton†	101	33	70.4	2.25							Snowville	86	36	60.4	0.60		
Rooxford											Soldier Summit*	88	27	54.8	2.45		
Rosebud	99	35	72.6	0.47							Terrace*	89	45	68.8	1.50		
Shiloh	104	32	64.2	0.07							Tooele†	86	42	65.0	0.16		
Silver City											Tropic	80	39	57.5	3.77		
SiouxFallst.	95	29	69.0	1.05							Vernal	84	43	60.3	2.88		
Spearfish†	96	30	67.5	0.00							Vermont.						
Tyndall†	96	35	70.6	1.81							Battleboro	87	33	69.4	1.91		
Watertown	93	26	65.0	1.43							Burlington†						
Wentworth†	94	28	67.1	3.10							Chelsea†	86	30	68.8	2.18		
Wessington Springs	97	35	65.5	1.50							Cornwall	89	35	59.5	1.65		
<i>Tennessee.</i>											Enosburg Falls	89	33	56.7	2.03		
Andersonville	95	39	69.8	0.06							Hartland†	91	30	66.0	1.87		
Arlington†	98	36	74.6	0.00							Jacksonville	84	24	54.7	2.42		
Arthur†											St. Johnsbury	86	29	55.6	2.17		
Ashwood *†	98	45	76.5	T.							Strafford *†	83	36	56.6	1.25		
Benton (near)†	95	36	71.9	0.36							Vernon*	88	33	59.7	2.13		
Bluff City†											Wells	86	38	57.6	2.38		
Bolivar†	99	36	74.0	0.00							Woodstock	90	29	54.8	1.99		
Bristol†	90	38	66.4	0.66							<i>Virginia.</i>						
Brownsville†	98	39	77.8	0.00							Alexandria	95	42	68.2	1.58		
Byrdstown	96	38	70.5	0.66							Ashland†	97	38	69.2	0.80		
Carthage†											Barboursville	95	39	68.4	0.80		
Clarksville	97	40	74.6	T.							Bedford City						
Clinton†											Bigstone Gap†	91	34	64.9	0.99		
Covington	99	40	77.0	0.00							Birdsnest *†	96	50	71.8	0.65		
Decatur†	97	39	71.6	0.38							Blacksburg	93	30	64.0	1.19		
Dyersburg	90	45	77.8	0.00							Buckingham†	100	35	68.0	1.05		
Elizabethton†	98	38	70.0	2.71							Burkes Garden						
Elk Valley	95	38	69.0	0.86							Callayille†	94	39	69.4	1.67		
Erasmus											Christiansburg†						
Fairmount *†	86	50	71.0	0.33							Clarksville						
Florence†	96	40	78.6	0.89							Clifton Forge	96	34	65.4	0.46		
Franklin	99	37	74.0	0.84							Dale Enterprise†	98	30	66.0	0.48		
Grace											Dowell	97	35	68.1	0.70		
Greeneville†	96	39	69.4	1.20							Dwale						
Harriman	93	39	70.0	0.19							Farmville	99	48	74.8	T.		
Hickory Withe	98	36	76.4	T.							Fredericksburg†	94	41	70.2	0.68		
Hohenwald†	94	30	69.3	T.							Gordonville	94	38	70.3			
Jackson†	98	35	74.6	0.00							Goshen						
Johnsonville†	96	30	73.0	0.00							Grahams Forge	91	31	68.2	0.92		
Jonesboro *†	89	40	65.7	1.06							Guinea						
Kingston†											Hampton	92	52	73.1	0.78		
Liberty†	96	40	72.8	0.98							Hot Springs	91	32	64.1	0.63		
Lynxville†	96	41	73.4	0.10							Leesburg						
McKenzie†	98	35	75.4	T.							Lexington†	97	39	67.9	1.09		
McMinnville†	93	39	71.2	0.20							Maldens						
Milan†	100	36	76.4	T.							Manassas†	96	36	69.2	0.80		
Mollino†	99	47	76.0	0.00							Marion†	90	34	65.5	1.35		
New Market *†	96	48	71.4	3.19							Monterey	88	34	63.8	1.20		
Newport†	95	39	70.4	0.59							Nottoway	102	36	71.4	0.75		
Nunnelly†	96	33	71.8	0.83							Petersburg†	99	38	73.6	1.69		
Oak Hill *†	98	37	68.4	0.87							Richmond (near)†	101	48	72.2	0.86		
Palmetto†	97	40	74.8	0.62							Rockymount†	96	40	71.2	1.02		
Perryear	100	34	74.0	0.21							Salem†	97					
Pope	100	34	74.8	0.62							Speers Ferry						
Ridleyton†	95	39	71.8	0.67							Spotsylvania	95	37	70.4	2.08		
Rogersville†	98	39	69.2	0.64							Stanardsville†	96	38	69.0	0.65		
Rugby	91	34	66.6	1.10							Staunton†	96	32	67.2	0.73		
St. Joseph†	102	38	74.2	0.00							Stephens City†	98	35	68.4	1.48		
Savannah	101	34	75.8	T.							Sunbeam†	94	39	70.2	1.02		
Sewaheet†	86	49	71.6	0.80							Swords Creek	91	32	64.0	0.80		
Silver Lake											Warrenston	91	48	70.4	0.86		
Springdale *†	93	36	67.7	0.42							Warsaw†	95	41	69.8	0.54		
Springfield	100	36	75.2	0.00							Woodstock†	98	38	67.9	1.38		
Sylvia	104	39	75.8	0.00							Wytheville†	98	37	66.8	0.92		
Tellico Plains†	97	37	72														

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

TABLE III.—Data from Canadian stations for the month of September, 1897.

Stations.	Pressure.			Temperature.		Precipitation.		Prevailing direction of wind.	Total depth of snow.
	Mean not reduced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Total.	Departure from normal.		
St. Johns, N. F.	Inches.	Inches.	Inches.	°	°	Inches.	Inches.	s.	
29.70	29.84	— .15	58.2	— 0.8	7.08	.....	.....	nw.	
Sydney, C. B. I.	29.93	29.98	— .05	55.4	— 1.1	3.66	+ 0.42		
Grindstone, G. St. L.									
Halifax, N. S.	29.92	30.05	.00	56.2	— 1.4	1.17	— 2.88	w.	
Grand Manan, N. B.	29.93	30.03	— .01	55.4	— 0.7	1.52	— 0.98	w.	
Yarmouth, N. S.	30.00	30.08	+.01	54.6	— 1.5	1.26	— 1.32	nw.	
Charlottet' n, P. E. I.	29.94	29.98	— .04	55.4	— 1.9	3.29	+ 0.48	nw.	
Chatham, N. B.	29.97	29.99	— .03	58.8	— 1.6	3.91	+ 1.19	w.	
Father Point, Que.	29.97	30.00	+.03	48.0	— 2.4	3.00	+ 0.20	w.	
Quebec, Que.	29.74	30.07	+.06	53.0	— 2.0	2.09	— 1.58	w.	
Montreal, Que.	29.89	30.09	+.06	57.1	— 1.3	1.15	— 2.08	sw.	
Rocklife, Ont.	29.83	30.13	.10	52.8	— 0.9	0.55	— 3.15	nw.	
Kingston, Ont.	29.82	30.18	.09	59.6	— 0.4	0.81	— 1.96	sw.	
Toronto, Ont.	29.78	30.16	+.10	59.0	— 0.0	0.89	— 2.36	nw.	
White River, Ont.	28.77	30.11	.12	50.9	+ 0.6	1.29	— 1.79	s.	
Port Stanley, Ont.	29.54	30.17	.12	58.6	— 0.9	0.44	— 2.21	sw.	
Saugeen, Ont.	29.46	30.16	.12	58.6	— 1.1	0.60	— 2.91	s.	
Parry Sound, Ont.	29.46	30.15	.12	56.2	+ 0.2	0.48	— 3.85	w.	
Port Arthur, Ont.	29.36	30.05	.09	55.0	+ 2.8	1.12	— 2.95	w.	
Winnipeg, Man.	29.14	29.26	+.03	57.0	+ 4.5	0.34	— 1.68	se.	
Minnedosa, Man.	28.18	29.95	+.03	56.3	+ 5.8	0.32	— 1.10	w.	
Qu'Appelle, Assin.	27.70	29.92	.00	56.2	+ 5.1	0.31	— 0.83	nw.	
Medicine Hat, Assin.	27.66	29.93	+.05	56.2	+ 1.2	2.15	+ 1.30	w.	
Swift Curr't, Assin.	27.41	29.95	+.01	55.0	+ 1.9	2.60	+ 1.47	w.	
Calgary, Alberta.	26.42	29.93	+.03	49.8	0.0	1.04	+ 0.14	w.	
Prince Albert, Sask.	28.33	29.84	.....	51.8	+ 3.4	2.34	.....	nw.	
Edmonton, Alberta.	27.62	29.94	+.05	50.4	+ 1.1	0.98	— 0.51	se.	
Battleford, Sask.	28.20	29.91	.....	51.0	+ 2.2	8.27	.....	w.	
Kamloops, B. C.	28.57	29.79	.....	57.8	.....	0.99	.....	sw.	
Hamilton, Bermuda.	29.97	30.13	+.06	77.6	+ 0.2	3.19	.....	n.	
Banff, Alberta.	25.88	29.92	.....	45.4	.....	0.59	.....	sw.	
Esquimalt, B. C.	30.01	30.04	.....	52.7	— 0.7	1.81	.....	s.	
Ottawa, Ont.	29.80	30.15	.....	56.4	— 1.0	0.45	.....	sw.	

TABLE IV.—Meteorological observations at Honolulu, Republic of Hawaii, by Curtis J. Lyons, Meteorologist to the Government Survey.

September, 1897.	Pressure at sea level.			Temperature.		Relative. humidity.	Wind.	Cloudiness.	Rain measured at 6 a. m.
	Ins.	Ins.	Ins.	6 a. m.	9 p. m.	Maximum.	Minimum.	Direction.	Force.
1...	80.05	30.00	80.11	74	81	76	64	6	0.06
2...	80.04	29.97	30.04	74	82	76	66	5	0.17
3...	80.04	29.98	30.05	70	81	74	68	6	0.05
4...	80.05	29.98	30.06	74	81	78	64	7	0.03
5...	80.05	30.00	30.04	77	81	77	55	5	0.03
6...	80.05	29.98	30.06	74	81	74	68	6	0.03
7...	80.05	29.98	30.05	76	81	75	65	7	0.02
8...	80.03	29.99	30.05	74	82	76	63	5	0.05
9...	80.07	30.01	30.09	76	82	78	68	8	0.00
10...	80.05	30.02	30.08	76	82	76	66	8	0.16
11...	80.07	30.03	30.09	75	82	71	57	7	0.07
12...	80.03	29.97	30.08	74	81	72	60	9	0.07
13...	80.03	29.94	30.08	73	82	73	58	8	0.01
14...	80.03	30.01	30.08	73	79	78	71	8	0.41
15...	80.11	30.03	30.09	75	81	76	69	2	0.11
16...	80.04	29.99	30.08	73	81	75	70	1	0.01
17...	80.09	29.94	29.99	69	81	74	67	8	0.03
18...	80.07	29.95	30.00	73	79	72	67	8	0.07
19...	80.03	29.93	30.01	71	78	73	66	5	0.07
20...	80.05	29.98	30.05	74	82	76	68	5	1.64
21...	80.06	30.00	30.05	75	81	76	64	4	0.03
22...	80.03	29.97	30.08	75	81	76	74	6	0.01
23...	80.09	29.96	30.03	75	80	76	63	2	8-3
24...	80.03	29.99	30.07	75	83	75	65	3	0.01
25...	80.04	30.02	30.08	75	81	75	69	3	0.07
26...	80.05	30.03	30.09	74	81	74	66	2	5
27...	80.04	29.97	30.08	73	81	76	63	5	0.04
28...	80.06	30.01	30.10	73	80	78	70	1	4-9
29...	80.08	30.05	30.11	75	81	78	71	8	0.00
30...	80.09	30.05	30.11	75	80	77	66	4	9
31...	.....	.....	.....	.....	.....	.....	.....	4	7
	80.07	29.99	30.06	74.2	80.0	75.4	84.4	71.4	76.7
									63.1
									76.4
									ene.
									2.0
									4.8
									8.41

Mean temperature: 6+2+9+3 is 76.7°; extreme temperatures 87° and 66°.

TABLE V.—*Mean temperature for each hour of seventy-fifth meridian time, September, 1897.*

Stations.	Temperature												Humidity													
	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.	
Bismarck, N. Dak.	61.3	59.6	57.8	56.3	55.5	54.6	53.9	53.6	56.2	60.9	66.1	70.6	73.9	76.8	78.9	80.2	80.4	80.0	78.4	74.7	70.3	67.5	64.7	62.5	66.4	
Boston, Mass.	59.1	58.4	57.6	57.2	56.7	56.5	57.6	60.0	62.2	69.9	65.9	67.3	68.6	69.6	66.7	68.6	67.9	66.6	64.6	63.0	62.3	61.4	59.9	62.7	61.3	63.6
Buffalo, N. Y.	60.4	59.9	59.8	59.2	58.9	58.9	60.1	61.0	63.2	64.8	65.9	67.2	68.0	68.7	68.8	68.7	68.0	66.8	65.3	64.5	63.2	62.4	61.9	61.3	63.6	
Chicago, Ill.	68.5	67.5	66.6	65.7	64.8	63.7	63.1	64.7	65.9	68.7	70.6	72.2	72.7	72.9	73.4	74.0	74.0	73.1	71.8	71.2	70.8	70.2	69.5	69.5	69.5	
Cincinnati, Ohio	66.4	64.5	63.3	62.0	61.0	59.9	58.9	60.7	64.2	69.2	73.7	77.6	79.6	81.5	82.7	83.2	82.3	80.8	77.6	75.5	72.6	70.8	67.7	71.6	67.7	
Cleveland, Ohio	61.9	60.9	60.1	59.9	59.1	58.9	58.6	60.0	64.9	67.3	69.8	69.7	70.0	70.4	70.2	71.1	70.5	69.9	68.8	66.7	65.2	63.8	62.8	65.4	65.4	
Detroit, Mich.	61.8	61.2	60.8	59.5	59.0	58.6	58.4	60.1	63.2	66.8	69.3	71.8	73.1	74.0	73.9	73.8	73.3	72.8	70.2	67.9	66.1	64.9	63.6	62.6	66.1	
Dodge City, Kans.	67.8	66.8	65.4	64.3	63.2	61.5	60.7	60.0	64.1	70.9	76.1	72.8	82.2	88.7	84.5	85.2	84.4	83.8	81.8	77.4	73.9	71.3	69.0	68.5	72.8	72.8
Eastport, Me.	53.0	51.5	51.2	50.8	50.6	50.6	51.7	53.1	55.7	57.5	58.4	59.4	60.0	59.7	59.3	58.2	58.2	55.7	54.7	54.1	53.6	53.0	52.5	52.5	55.0	
Galveston, Tex.	78.5	78.1	77.6	77.2	76.6	76.3	75.9	76.1	76.3	77.1	78.6	79.7	80.9	81.6	82.5	82.8	82.8	82.0	81.6	80.6	80.0	79.6	79.2	78.8	79.2	
Havre, Mont.	54.5	53.0	51.9	51.0	49.5	48.4	46.5	45.7	45.4	49.9	56.2	60.8	64.2	67.4	70.3	72.5	73.5	74.3	73.5	71.4	66.5	63.0	59.4	56.7	50.4	
Kansas City, Mo.	73.0	71.8	70.7	69.7	68.8	67.9	66.9	66.6	69.5	73.5	77.3	80.7	82.8	84.7	86.1	86.7	87.2	86.9	85.3	82.5	79.3	77.7	75.8	74.5	76.9	
Key West, Fla.	79.5	79.8	79.1	79.1	79.2	79.1	79.8	80.8	81.6	82.1	82.6	82.5	83.4	82.7	82.1	81.7	80.8	80.1	80.2	79.9	79.6	79.4	79.3	80.6	80.6	
Memphis, Tenn.	74.5	73.6	72.5	71.4	70.8	69.6	68.5	68.8	71.4	74.5	78.7	81.3	83.5	85.0	86.2	87.2	87.4	86.9	83.9	82.6	80.6	78.9	77.5	76.1	78.0	
New Orleans, La.	75.3	74.9	74.7	74.3	74.0	73.3	73.2	73.8	76.4	78.6	81.1	82.4	83.3	84.7	85.2	84.4	83.1	81.0	79.5	78.1	77.3	76.5	75.8	76.6	76.6	
New York, N. Y.	63.5	62.0	61.4	61.1	60.4	59.7	59.9	61.2	62.6	64.5	66.1	68.0	69.8	71.0	71.5	71.5	71.0	69.1	67.9	67.2	65.8	64.7	63.9	63.1	65.3	
Philadelphia, Pa.	68.8	67.2	67.1	64.4	60.8	61.6	61.9	64.1	66.7	69.3	71.5	73.6	75.3	76.2	76.8	76.8	75.9	73.6	71.4	68.9	66.7	65.4	64.7	63.8	68.3	
Pittsburg, Pa.	61.4	60.2	59.2	58.3	57.4	57.1	56.5	58.5	61.1	65.4	69.9	73.8	75.9	77.3	78.3	78.2	77.7	76.7	73.9	71.3	68.7	65.9	64.2	62.5	67.0	
Portland, Oreg.	59.1	58.0	56.9	55.7	54.9	54.0	53.3	53.2	52.2	52.4	53.8	55.6	57.1	59.3	61.7	64.0	66.1	67.3	64.4	66.1	65.3	62.1	61.7	59.1	59.1	
St. Louis, Mo.	73.5	72.2	70.9	70.0	68.6	67.6	66.6	68.0	69.9	73.2	78.3	81.8	83.8	86.0	87.9	88.0	87.7	87.0	84.8	82.5	80.1	78.4	76.5	74.8	77.4	
St. Paul, Minn.	63.1	62.3	61.6	61.1	60.2	59.5	58.6	58.7	60.4	63.5	67.1	70.3	73.2	74.4	75.7	76.5	77.1	76.0	74.0	71.5	68.9	66.9	65.7	64.7	67.1	
Salt Lake City, Utah	63.2	61.1	61.1	60.1	59.2	58.0	58.3	57.9	58.4	60.8	63.5	69.3	71.8	73.6	74.5	75.7	76.8	77.0	76.2	74.7	71.6	68.8	66.2	64.6	66.0	
San Diego, Cal.	66.0	65.4	65.2	64.9	64.8	64.6	64.4	64.4	64.2	65.0	66.5	69.1	70.6	71.3	71.7	72.1	71.6	71.8	70.7	69.8	68.2	67.4	66.8	66.4	67.6	
San Francisco, Cal.	57.7	57.4	56.7	56.4	56.4	56.0	55.9	55.6	55.3	55.6	57.1	58.7	61.6	63.7	65.1	65.6	65.3	64.5	63.4	61.7	60.1	59.2	58.5	58.1	59.4	
Savannah, Ga.	70.3	69.6	69.3	68.9	68.4	67.8	68.0	70.5	73.3	75.9	77.7	79.0	79.0	79.4	79.6	78.6	77.7	76.3	74.4	73.3	72.5	73.0	71.5	70.7	73.5	
Washington, D. C.	63.7	62.0	61.0	60.0	59.3	58.4	59.2	62.5	66.7	70.1	72.9	75.0	77.1	78.2	78.8	78.6	77.5	75.0	71.5	68.8	66.7	65.8	63.7	62.7	68.1	

TABLE VI.—*Mean pressure for each hour of seventy-fifth meridian time, September, 1897.*

Stations.	Mean																									
	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.		
Bismarck, N. Dak.	.28	.244	.249	.251	.253	.254	.258	.264	.272	.278	.280	.280	.276	.282	.249	.235	.222	.213	.207	.211	.214	.235	.237	.245	.252	.247
Boston, Mass.	.29	.968	.967	.967	.971	.975	.987	.994	.997	.997	.998	.994	.974	.968	.951	.946	.943	.945	.949	.958	.965	.969	.970	.969	.969	.970
Buffalo, N. Y.	.29	.384	.384	.388	.395	.393	.392	.392	.395	.392	.375	.370	.366	.355	.345	.335	.329	.326	.326	.330	.336	.341	.340	.342	.342	.345
Chicago, Ill.	.29	.277	.278	.281	.283	.288	.296	.305	.314	.321	.321	.319	.312	.301	.290	.278	.268	.261	.260	.260	.263	.276	.283	.283	.294	.289
Cincinnati, Ohio	.29	.495	.496	.495	.499	.507	.517	.531	.542	.547	.551	.548	.535	.523	.503	.487	.473	.467	.470	.469	.477	.487	.493	.499	.503	.505
Cleveland, Ohio	.29	.350	.349	.350	.354	.350	.370	.379	.386	.396	.398	.396	.392	.381	.360	.358	.346	.340	.338	.342	.344	.351	.354	.355	.358	.363
Detroit, Mich.	.29	.888	.888	.888	.888	.884	.894	.902	.915	.921	.927	.929	.915	.895	.879	.857	.839	.820	.810	.817	.820	.822	.828	.832	.833	.835
Dodge City, Kans.	.27	.501	.501	.506	.504	.506	.506	.510	.517	.525	.536	.543	.549	.543	.529	.516	.497	.479	.468	.465	.465	.472	.481	.494	.504	.505
Eastport, Me.	.29	.943	.943	.942	.944	.950	.959	.959	.965	.971	.971	.968	.962	.959	.943	.926	.926	.923	.929	.939	.943	.944	.945	.945	.946	
Galveston, Tex.	.30	.028	.027	.028	.028	.024	.031	.042	.062	.061	.069	.072	.073	.063	.046	.032	.019	.010	.009	.011	.014	.023	.031	.034	.035	
Havre, Mont.	.27	.348	.351	.355	.359	.363	.364	.369	.376	.384	.387	.385	.382	.371	.360	.347	.335	.328	.318	.318	.311	.325	.337	.344	.347	.352
Kansas City, Mo.	.29	.111	.114	.115	.119	.128	.137	.147	.155	.168	.175	.176	.167	.154	.136	.115	.100	.087	.079	.075	.081	.087	.096	.110	.117	.124
Key West, Fla.	.29	.982	.971	.964	.961	.965	.972	.985	.996	.009	.014	.015	.010	.006	.976	.959	.952	.952	.958	.968	.982	.992	.998	.997	.991	.982
Memphis, Tenn.	.29	.698	.698	.696	.696	.700	.708	.724	.738	.753	.764	.767	.763	.746	.727	.707	.687	.674	.671	.670	.673	.684	.694	.701	.705	.710
New Orleans, La.	.29	.998	.991	.985	.983	.988	.997	.009	.019	.028	.034	.034	.027	.015	.996	.981	.972	.967	.973	.978	.987	.002	.009	.010	.006	.000
New York, N. Y.	.29	.804	.801	.798	.797	.805	.812	.822	.826	.828	.826	.821	.818	.808	.791	.778	.778	.782	.791	.796	.804	.809	.811	.810	.804	
Philadelphia, Pa.	.30	.016	.016	.016	.018	.024	.032	.043	.050	.058	.050	.046	.035	.023	.009	.791	.792	.793	.795	.795	.795	.004	.014	.019	.021	.023
Pittsburg, Pa.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Portland, Oreg.	.29	.875	.878	.882	.884	.885	.888	.889	.889	.894	.900	.900	.911	.910	.906	.897	.888	.874	.865	.887	.884	.854	.857	.864	.871	.889
St. Louis, Mo.	.29	.680	.583	.584	.687	.546	.556	.570	.683	.590	.588	.580	.565	.547	.538	.515	.504	.502	.504	.508	.525	.530	.535	.538	.543	
St. Paul, Minn.	.29	.174	.177	.178	.180	.186	.192	.202	.209	.215	.215	.219	.214	.208	.191	.178	.168	.161	.155	.155	.156	.168	.173	.179	.183	.185
Salt Lake City, Utah	.25	.687	.692	.684	.688	.695	.697	.706	.713	.727	.734	.742	.744	.738	.727	.718	.697	.678	.666	.660	.655	.659	.668	.678	.685	.698
San Diego, Cal.	.29	.845	.846	.845	.843	.888	.885	.883	.840	.853	.863	.871	.870	.866	.855	.841	.830	.824	.819	.818	.821	.829	.842	.850	.843	
San Francisco, Cal.	.29	.850	.848	.850	.849	.846	.846	.848	.853	.866	.878	.888	.893	.887	.875	.863	.847	.835	.828	.822	.823	.831	.846	.853	.855	
Savannah, Ga.	.30	.023	.016	.008	.008	.014	.026	.030	.046	.052	.065	.060	.055	.041	.024	.018	.008	.010	.014	.017	.025	.035	.038	.039	.035	
Washington, D.C.	.30	.039	.035	.035	.037	.045	.063	.068	.073	.079	.074	.063	.048	.029	.016	.010	.008	.008	.018	.023	.030	.036	.041	.042	.041	

*Record incomplete.

TABLE VII.—Average wind movement for each hour of seventy-fifth meridian time, September, 1897.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.	
Abilene, Tex.	6.1	6.3	5.8	6.0	5.2	4.8	4.3	4.4	4.2	5.6	7.1	8.2	9.0	9.8	9.4	9.9	9.6	10.4	9.9	8.8	8.4	7.0	6.6	6.2	7.2	
Albany, N. Y.	4.3	4.7	4.9	4.9	4.8	4.6	5.2	6.3	7.3	7.5	8.4	9.6	10.4	10.3	9.7	8.9	8.1	6.7	5.6	5.3	4.6	4.5	4.5	4.5	6.5	
Alpena, Mich.	5.8	6.1	5.9	5.6	5.8	5.5	5.3	6.0	7.3	9.0	9.6	9.9	10.4	10.6	11.1	11.5	10.4	9.2	7.3	6.1	5.8	6.5	6.0	7.6	7.6	
Amarillo, Tex.	13.6	13.4	18.1	12.6	13.8	11.6	11.1	11.1	11.9	18.6	14.8	14.9	14.8	15.0	15.4	15.6	16.0	16.6	16.5	15.7	13.8	14.2	18.6	18.6	14.0	
Atlanta, Ga.	7.5	7.9	8.0	7.7	7.8	8.1	8.2	7.7	8.4	9.9	10.1	10.4	10.1	9.9	9.6	9.4	8.9	8.8	8.5	7.8	7.7	8.0	7.9	7.6	8.4	
Atlantic City, N. J.	10.1	10.1	10.5	10.1	10.0	9.6	10.6	11.9	12.5	12.1	12.0	12.1	12.5	12.7	12.9	12.9	12.4	11.1	10.5	10.2	10.0	10.3	10.7	10.1	11.2	
Augusta, Ga.	4.7	4.8	5.0	4.8	5.0	4.6	4.6	5.5	7.0	7.9	8.6	7.8	7.9	7.7	8.5	8.7	8.0	7.1	5.9	4.8	4.9	5.0	5.1	5.0	6.2	6.2
Baker City, Oreg.	4.9	5.6	6.4	6.9	7.1	6.8	6.9	6.8	6.5	5.5	5.8	5.8	5.8	3.7	4.2	5.0	5.9	6.1	6.4	5.6	5.7	4.3	4.3	4.4	4.8	5.6
Baltimore, Md.	3.5	3.8	3.6	3.5	3.8	3.6	3.9	4.5	5.6	6.1	5.6	5.9	6.6	6.1	6.8	6.2	5.6	4.0	3.6	3.2	3.4	3.8	3.8	4.6	4.6	
Bismarck, N. Dak.	7.0	6.9	7.8	6.7	6.4	6.2	6.2	5.8	6.3	8.2	9.9	10.6	12.0	12.9	13.5	14.0	14.0	13.1	9.7	7.9	7.6	7.9	7.8	9.2	9.2	
Block Island, R. I.	14.3	13.9	14.1	14.2	14.3	14.1	14.1	14.7	14.8	14.9	14.8	14.3	14.8	14.4	15.0	16.2	16.4	15.7	15.8	16.0	15.2	14.6	14.0	14.8	14.8	
Boston, Mass.	9.4	9.2	9.3	9.2	9.1	9.4	9.6	10.2	11.0	11.4	11.0	11.4	11.9	12.6	11.4	11.1	10.7	9.9	9.9	9.5	10.2	9.4	9.5	10.4	9.5	9.6
Buffalo, N. Y.	10.3	10.8	11.0	10.4	9.5	9.0	9.4	9.6	9.8	11.4	11.3	11.2	12.4	12.2	13.4	13.2	12.0	12.1	12.1	12.2	12.7	12.9	12.3	11.8	11.4	
Cairo, Ill.	4.2	4.0	4.5	4.4	4.5	4.7	4.6	4.5	5.1	5.4	5.8	6.8	7.5	7.2	7.4	7.8	7.2	5.7	4.6	3.7	3.8	4.0	4.4	5.3	5.3	
Cape Henry, Va.	14.3	13.6	13.4	12.4	12.2	11.9	11.9	13.7	12.8	13.8	13.7	13.5	13.9	14.4	14.3	13.9	13.8	13.8	13.5	13.8	14.3	14.0	13.4	13.4		
Carson City, Nev.	7.8	6.8	6.7	5.6	5.1	4.8	4.0	3.9	3.6	3.0	3.0	4.0	5.2	6.3	7.6	9.8	10.9	11.6	13.1	12.3	11.0	10.0	9.8	8.5	7.2	
Charleston, S. C.	10.4	10.4	11.0	11.6	11.4	11.4	12.0	11.9	12.6	13.2	13.8	14.0	14.4	15.8	15.1	14.7	14.0	12.6	11.5	11.1	10.9	11.1	10.7	12.5	12.5	
Charlotte, N. C.	5.7	5.7	5.7	5.3	5.5	5.4	5.3	5.7	6.5	6.8	6.9	6.7	6.5	6.8	6.5	6.3	5.9	5.4	6.1	6.0	6.0	5.8	5.8	5.3	5.3	
Chattanooga, Tenn.	3.1	3.0	3.1	3.0	3.0	3.1	3.1	3.3	4.6	5.7	6.1	7.0	7.7	8.1	8.7	8.8	9.1	7.5	5.8	4.5	3.4	3.0	3.1	3.1	5.3	
Cheyenne, Wyo.	6.6	6.4	6.5	6.0	6.5	6.4	6.4	6.6	7.0	8.4	8.9	9.5	9.9	10.2	9.5	10.1	10.1	9.8	9.7	9.4	9.1	8.4	8.4	7.8	7.8	
Chicago, Ill.	17.3	17.7	18.0	18.0	17.0	15.7	15.4	14.5	14.3	13.8	14.4	14.0	15.4	15.7	16.4	16.2	15.8	16.1	15.1	14.7	14.9	15.5	16.0	15.7	15.7	
Cincinnati, Ohio	2.8	2.5	2.4	2.8	2.5	2.4	2.1	2.1	2.8	3.7	5.0	5.6	6.4	7.5	7.0	7.3	7.4	7.6	7.8	5.6	4.5	3.7	3.1	2.7	2.8	4.5
Cleveland, Ohio	12.6	12.7	13.4	14.0	13.9	13.1	12.1	11.5	10.4	10.1	9.9	11.8	11.6	11.5	11.8	11.5	10.9	10.1	9.3	9.2	10.6	11.9	13.1	12.9	11.6	
Columbia, Mo.	6.0	5.6	5.3	5.4	5.2	5.2	5.4	4.8	5.1	6.1	7.0	7.4	7.6	7.5	7.6	7.8	7.8	6.7	5.4	5.2	5.6	6.5	6.1	5.7	5.6	
Columbus, Ohio	8.2	3.1	3.0	3.0	3.2	3.4	2.9	3.4	4.1	4.7	5.8	5.8	6.7	7.0	7.2	7.4	6.9	6.3	5.5	5.1	4.9	4.1	3.2	4.8	4.8	
Concordia, Kans.	6.4	6.3	6.0	5.8	5.2	4.8	4.5	4.8	5.5	6.7	7.8	8.6	9.3	9.9	9.9	10.3	9.8	9.2	7.7	5.2	4.7	4.9	5.8	6.0	6.9	
Corpus Christi, Tex.	9.2	8.6	8.2	7.5	7.0	7.0	7.0	6.9	7.4	8.4	8.6	8.5	10.1	10.5	11.4	13.0	12.4	12.6	12.7	12.2	11.9	11.7	10.8	9.9	9.7	
Davenport, Iowa	4.8	4.8	4.3	4.1	4.2	4.8	4.5	4.7	5.7	6.4	6.9	7.1	7.8	8.2	8.5	8.0	8.0	7.1	5.1	4.8	4.0	4.8	4.6	5.7	5.7	
Denver, Colo.	7.1	7.7	7.0	7.0	7.1	7.1	7.0	6.9	6.5	5.4	4.8	4.6	4.7	5.6	6.2	6.6	7.3	8.0	8.4	8.5	6.5	6.0	6.1	6.8	6.4	
Des Moines, Iowa	5.2	5.0	4.5	4.0	3.8	3.7	4.5	4.6	5.0	5.0	7.0	7.9	8.6	9.8	10.0	10.5	9.6	9.6	8.6	7.0	4.9	4.8	5.2	5.1	6.4	
Detroit, Mich.	6.7	6.6	6.4	6.5	6.3	6.1	6.2	6.3	6.4	6.7	7.0	7.4	8.0	8.7	9.4	9.0	9.0	7.0	6.2	6.8	6.7	6.9	6.6	7.0	7.1	
Dodge City, Kans.	10.4	9.4	8.8	7.0	7.5	6.8	6.5	6.1	6.8	10.5	13.2	14.5	16.8	16.8	15.7	15.8	15.8	14.9	12.9	10.8	10.0	10.0	9.8	11.1	11.1	
Dubuque, Iowa	4.2	4.1	4.0	4.0	4.2	4.6	4.4	4.5	5.1	5.1	6.1	6.6	7.2	8.1	8.5	8.7	8.8	8.8	5.5	4.9	4.4	4.2	4.4	4.3	5.6	
Duluth, Minn.	9.7	9.8	8.6	9.5	9.6	8.6	8.6	8.8	9.0	9.6	11.8	12.2	12.5	11.5	11.9	11.4	10.7	9.6	8.7	8.9	9.1	9.2	9.7	10.0		
Eastport, Me.	7.9	8.8	7.9	8.4	8.9	9.1	8.9	10.8	10.7	11.3	11.5	12.0	12.1	12.3	12.0	11.7	11.0	9.6	8.6	8.1	8.0	7.7	8.0	9.7		
El Paso, Tex.	6.9	6.8	7.4	7.7	7.6	8.0	7.6	7.9	8.6	8.6	9.8	8.7	8.7	8.2	8.3	8.9	8.4	8.4	8.0	7.8	7.8	7.8	7.8	7.9	7.9	
Erie, Pa.	8.5	8.7	9.6	9.5	9.9	9.4	8.8	8.5	8.4	8.4	9.1	9.3	10.1	9.0	9.0	8.8	8.1	7.2	7.6	8.0	7.7	7.7	8.1	8.6	8.6	
Eureka, Cal.	4.4	3.8	3.0	3.1	2.9	2.9	2.5	2.2	2.7	2.8	2.8	3.6	5.4	6.9	8.0	9.3	10.1	9.6	9.2	8.2	7.2	4.9	4.1	4.1	4.1	
Fort Canby, Wash.	9.6	10.1	9.7	10.2	9.9	10.2	10.6	9.8	9.9	10.2	11.0	10.7	11.1	12.3	13.1	13.0	13.0	12.6	12.8	12.6	11.7	11.5	11.2	11.2	11.2	
Fort Smith, Ark.	4.1	4.1	3.5	3.7	3.8	4.2	4.0	4.6	5.1	5.1	5.6	5.5	5.9	6.5	6.6	6.5	5.7	4.6	3.9	3.6	3.3	3.4	3.4	4.4	4.4	
Fresno, Cal.	8.0	7.8	7.8	7.0	6.4	5.8	5.4	5.0	5.0	4.6	4.9	4.5	5.4	5.0	5.0	5.0	5.2	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.0	
Galveston, Tex.	9.4	9.8	10.0	9.5	9.7	9.4	9.6	11.2	11.5	12.0	12.0	12.0	12.0	11.8	11.4	10.8	10.8	10.8	10.8	10.8	9.8	9.1	9.8	10.3		
Grand Haven, Mich.	6.0	6.0	6.2	6.1	6.1	5.7	5.6	5.7	7.0	7.2	9.4	9.8	9.7	9.7	9.9	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	7.1	
Greenbay, Wis.	4.8	5.6	5.7	5.1	4.6	4.4	5.0	5.5	6.9	8.1	8.5	8.4	8.3	8.9	9.0	9.1	9.0	8.5	8.5	8.5	8.5	8.5	8.5	5.7	6.7	
Hannibal, Mo.	6.2	6.4	5.7	5.4	5.0	5.0	5.0	5.6	5.6	7.4	8.2	8.8	9.8	9.5	9.3	9.3	9.3	9.4	7.4	6.6	5.8	5.8	5.8	6.9	6.9	
Harrisburg, Pa.	5.0	4.8	4.5	4.3	4.1	4.2	5.1	5.6	6.7	6.9	7.1	7.6	7.8	7.7	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	5.7	
Hatteras, N. C.	10.3	9.6	10.0	9.9	10.2	9.9	10.6	10.8	11.4	11.1	10.8	12.0	12.0	13.1	12.5	12.5	12.5	11.8	11.6	10.8	10.5	10.1	10.4	11.0	11.0	
Havre, Mont.	5.7	5.7	5.9	7.7	7.4	7.1	6.9	7.1	7.9	10.2	11.8	11.3	12.0	12.0	12.4	12.0	12.0	11.9	11.0	9.8						

TABLE VII.—*Average wind movement, etc.—Continued.*

Stations.	1 p. m.		2 p. m.		3 p. m.		4 p. m.		5 p. m.		6 p. m.		7 p. m.		8 p. m.		9 p. m.		10 p. m.		11 p. m.		Mean.		
	1 s. h.	2 s. h.	3 s. h.	4 s. h.	5 s. h.	6 s. h.	7 s. h.	8 s. h.	9 s. h.	10 s. h.	11 s. h.	12 s. h.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.		
Pensacola, Fla.....	9.8	10.1	9.8	10.0	10.5	10.0	10.2	10.6	10.5	10.9	11.5	11.4	11.9	12.2	12.1	11.8	11.1	11.1	9.9	9.9	10.2	9.9	9.7	10.3	
Philadelphia, Pa.....	8.0	8.2	8.3	8.4	8.1	8.0	8.9	9.7	10.2	10.8	10.7	10.4	10.7	10.8	11.0	11.4	11.3	10.0	9.1	9.0	8.9	8.7	8.5	9.5	
Phoenix, Ariz.....	8.6	4.0	8.9	8.8	8.4	8.4	2.9	8.0	2.9	8.1	4.1	5.3	5.3	5.2	4.9	4.9	4.3	3.8	3.5	4.0	3.6	3.0	3.2	3.9	
Pierre, S. Dak.....	9.1	8.7	8.8	6.7	6.9	6.8	6.6	6.7	5.9	7.5	9.1	10.8	10.9	10.8	10.9	11.4	11.9	12.2	12.0	9.7	8.8	8.7	7.7	8.9	
Pittsburg, Pa.....	2.8	2.5	2.5	2.7	2.8	2.8	2.6	2.7	3.8	3.4	4.6	5.0	5.7	6.0	6.3	6.2	5.9	4.9	4.1	2.9	2.6	2.8	2.6	3.7	
Port Angeles, Wash.....	4.3	4.6	4.6	4.7	4.4	4.7	4.8	4.4	4.2	3.9	8.0	2.9	2.5	4.5	5.2	5.6	5.7	5.8	6.0	6.1	5.2	4.1	4.2	4.2	4.6
Port Huron, Mich.....	8.0	7.7	8.0	7.7	8.0	8.1	8.0	7.5	7.1	7.8	8.7	9.0	10.0	10.8	11.8	11.4	11.5	10.7	9.7	9.0	8.8	8.5	8.3	9.0	
Portland, Me.....	4.9	5.5	5.5	5.8	5.3	5.5	5.4	6.5	7.8	7.1	7.9	8.2	8.8	9.7	9.5	8.7	7.7	6.7	6.2	5.5	5.2	6.0	5.6	6.6	
Portland, Oreg.....	6.9	6.6	5.7	5.4	6.2	5.5	5.0	5.6	6.0	5.5	5.9	6.5	6.1	6.6	6.8	7.6	8.8	8.9	9.1	9.7	8.3	7.5	7.1	6.8	
Pueblo, Colo.....	6.2	4.8	4.9	4.5	4.8	4.5	4.0	3.7	3.8	4.4	4.8	5.3	6.3	8.0	8.6	9.2	9.5	9.8	8.2	7.8	6.5	6.6	6.9	6.1	
Raleigh, N. C.....	5.3	5.1	4.6	5.8	5.5	5.1	4.7	6.0	7.0	7.9	7.5	7.4	7.8	7.5	7.7	7.3	7.2	6.5	5.4	5.3	5.2	5.1	5.1	6.1	
Rapid City, S. Dak.....	7.5	7.6	6.6	7.0	6.4	6.7	6.8	5.6	6.1	6.2	6.3	6.5	7.8	9.8	10.8	11.0	11.1	10.9	10.0	8.0	6.0	6.5	6.7	7.6	
Redbluff, Cal.....	5.1	5.6	5.0	5.7	5.6	5.6	5.1	5.2	5.3	5.6	5.6	5.9	5.4	5.8	5.7	6.1	6.1	6.4	6.8	6.2	5.5	5.1	4.9	5.6	
Rochester, N. Y.....	5.2	5.3	5.2	5.3	5.3	5.7	5.9	6.2	6.9	7.2	7.9	8.8	8.6	8.6	8.7	8.3	6.5	5.8	5.1	5.5	5.3	6.5	5.3		
Roseburg, Oreg.....	2.4	1.9	2.0	1.8	1.7	1.6	1.6	1.9	1.7	2.0	2.0	2.5	2.9	3.6	3.7	4.8	5.2	5.6	6.6	7.0	6.4	4.4	3.8	2.7	3.8
Sacramento, Cal.....	8.2	7.8	8.0	8.5	7.7	7.7	7.6	7.1	6.6	6.2	6.2	5.8	6.1	6.2	6.9	7.1	7.3	7.8	7.8	7.8	7.4	8.2	8.8	8.9	7.4
St. Louis, Mo.....	8.0	7.7	7.1	6.4	6.2	6.2	5.5	5.5	6.0	6.1	6.9	7.4	7.8	8.0	8.8	8.3	8.1	7.6	7.4	8.0	8.4	8.1	7.8	7.3	
St. Paul, Minn.....	5.1	5.1	5.3	5.6	5.8	5.6	5.4	5.7	6.1	6.9	7.3	7.8	8.6	9.1	9.2	9.8	9.3	8.7	7.4	6.6	6.6	6.0	5.1	5.1	6.8
Salt Lake City, Utah.....	4.8	4.3	4.2	4.1	4.5	4.8	5.3	4.5	4.2	3.7	4.0	5.8	9.0	10.4	11.6	11.4	11.5	11.4	9.3	7.8	6.0	4.6	4.2	6.4	
San Antonio, Tex.....	6.2	5.8	5.4	5.7	6.0	6.1	6.1	6.7	7.8	7.5	8.1	8.5	9.4	9.0	9.5	9.6	9.1	8.0	8.2	8.0	7.0	6.6	7.3		
San Diego, Cal.....	3.1	3.1	3.4	3.2	3.5	3.8	3.5	3.8	3.5	3.5	3.9	4.8	6.5	9.0	10.5	11.1	11.0	10.5	9.2	8.3	7.1	5.4	3.7	3.4	5.8
Sandusky, Ohio.....	8.0	7.4	7.5	7.1	7.8	6.4	6.4	6.8	6.8	6.6	6.8	7.3	7.8	8.0	8.6	8.4	8.0	7.4	6.9	6.7	6.5	6.7	7.3	7.2	
San Francisco, Cal.....	9.9	9.2	8.4	8.2	7.8	7.4	7.7	7.4	6.8	7.5	7.8	7.8	8.1	9.2	12.0	15.8	17.8	20.2	20.9	20.2	19.4	18.1	14.6	11.0	11.8
San Luis Obispo, Cal.....	2.3	2.1	1.8	2.4	2.7	2.9	2.9	3.4	3.3	4.0	4.4	4.7	5.5	6.8	7.5	8.4	7.8	7.3	6.6	5.5	4.7	3.6	2.6	4.4	
Santa Fe, N. Mex.....	4.4	4.5	4.4	3.8	4.0	3.1	3.6	3.2	1.7	2.2	3.4	4.7	6.1	6.8	6.0	7.6	7.6	6.8	6.4	6.2	5.5	4.9			
Sault Ste Marie, Mich.....	5.0	5.1	5.1	4.9	5.2	5.6	5.5	5.8	7.2	8.2	8.4	8.3	9.6	10.0	10.6	11.1	11.0	10.9	9.4	7.9	6.8	6.1	5.4	5.2	7.3
Savannah, Ga.....	7.1	7.2	7.7	7.7	7.7	7.7	7.7	7.2	8.2	9.1	10.2	10.6	10.8	11.6	12.3	13.0	12.7	11.9	10.3	9.0	8.0	8.2	8.1	7.4	9.2
Seattle, Wash.....	2.9	2.6	2.8	2.4	2.7	2.6	2.7	3.1	3.1	3.3	3.2	3.8	4.2	4.5	4.4	4.7	4.6	4.0	5.2	5.1	4.7	4.2	3.8	3.2	3.7
Shreveport, La.....	4.9	4.6	4.4	4.8	4.0	3.8	4.3	4.6	5.8	6.3	6.8	7.0	8.8	8.7	9.0	9.6	8.8	8.5	6.5	4.9	5.0	5.3	5.4	6.1	
Sioux City, Iowa.....	11.6	11.2	11.2	10.0	10.1	9.7	9.2	9.1	8.8	10.2	11.9	18.3	14.5	15.6	16.5	15.0	15.2	18.4	13.1	12.4	12.7	11.8	11.3	12.3	
Spokane, Wash.....	4.5	4.3	3.6	3.7	3.6	3.1	3.2	3.1	3.2	3.0	4.0	5.2	5.8	5.8	5.7	6.0	5.7	5.3	5.6	5.8	5.0	4.0	4.1	3.4	4.4
Springfield, Ill.....	7.2	6.9	7.1	6.9	6.6	6.6	6.6	6.9	7.4	7.2	7.6	8.0	8.2	8.1	8.3	8.9	8.1	7.1	5.5	5.7	6.8	7.3	7.2	7.0	
Springfield, Mo.....	8.1	8.4	8.0	8.1	7.8	7.7	7.7	7.6	7.5	8.8	9.7	9.7	9.5	9.0	9.2	9.6	9.6	9.4	8.9	7.8	7.7	8.0	8.5	8.4	
Tacoma, Wash.....	4.0	8.6	8.5	8.2	2.7	3.0	2.9	2.8	2.9	3.0	3.4	3.8	4.5	5.5	5.5	6.1	5.8	6.1	6.0	5.7	5.0	4.5	4.0	3.5	4.2
Tampa, Fla.....	5.9	6.0	5.9	5.5	5.6	5.7	6.7	7.6	8.6	8.9	9.1	9.7	9.5	9.5	9.2	9.0	7.8	7.7	7.8	6.8	6.1	6.0	5.6	7.3	
Tatoosh Island, Wash.....	8.4	9.5	9.6	8.9	9.5	10.4	10.1	10.6	10.6	10.4	11.2	12.1	11.2	10.8	10.8	10.1	9.6	9.5	8.6	7.4	7.2	7.4	6.6	8.1	9.5
Toledo, Ohio.....	7.3	6.5	6.4	6.8	6.5	5.9	6.1	6.0	6.9	7.2	7.7	8.3	8.9	9.1	8.5	9.1	8.0	8.6	5.9	5.9	6.7	6.6	7.1		
Vicksburg, Miss.....	5.2	5.6	5.0	4.9	5.2	5.3	5.3	5.1	5.5	6.7	6.9	7.2	8.2	8.4	8.8	8.2	8.1	8.8	9.5	9.7	9.2	8.4	8.1	6.1	
Vineyard Haven, Mass.....	6.9	7.2	7.5	7.3	7.2	7.2	7.8	9.2	9.6	9.6	9.5	9.4	9.8	9.6	9.4	9.7	9.1	8.7	8.0	8.1	8.6	7.9	7.2	8.4	
Walla Walla, Wash.....	4.5	4.5	4.7	4.5	4.2	4.8	4.0	3.9	4.0	3.9	3.7	4.3	4.5	5.1	5.3	5.8	4.9	4.0	4.9	4.7	4.1	4.4	4.5	4.7	
Washington, D. C.....	3.7	4.3	4.2	4.0	4.1	3.9	4.0	4.9	5.9	6.8	7.0	7.6	7.9	8.0	8.2	7.6	7.2	6.0	4.6	4.1	3.8	4.1	4.0	3.9	5.4
Wichita, Kans.....	5.7	5.3	5.5	4.7	4.9	5.1	4.9	4.6	5.6	6.6	7.8	8.7	9.3	9.8	9.6	9.6	9.0	7.8	6.6	5.6	5.5	5.8	6.8		
Williston, N. Dak.....	7.3	6.9	6.0	5.4	4.8	4.8	5.4	5.1	4.4	6.1	7.8	8.7	11.2	12.0	12.6	12.9	13.1	12.5	12.0	9.6	8.4	7.8	8.0	7.6	8.4
Wilmington, N. C.....	5.3	5.7	5.7	5.9	6.4	6.3	6.6	7.1	7.8	8.5	8.8	8.9	9.5	9.7	9.5	9.6	8.3	7.2	7.0	6.2	5.8	5.6	5.0	7.3	
Woods Hole, Mass.....	18.6	18.7	18.4	18.2	12.3	12.2	12.6	13.4	13.1	12.8	12.7	12.5	18.7	18.5	18.5	14.8	15.1	14.7	13.9	13.8	14.5	14.8	13.5	13.5	
Yankton, S. Dak.....	9.8	8.8	8.3	8.3	7.8	5.9	5.4	5.6	7.3	9.2	10.4	11.0	11.6	12.9	13.9	14.6	14.3	13.5	10.3	7.9	7.4	8.1	8.3	8.9	9.5

TABLE VIII.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the month of September, 1897.

Stations.	Component direction from—				Resultant.		Stations.	Component direction from—				Resultant.	
	N.	S.	E.	W.	Direction from—	Duration.		N.	S.	E.	W.	Direction from—	Duration.
<i>New England.</i>													
Eastport, Me.	22	12	10	27	n. 60 w.	20	Upper Lake Region—Cont'd.	Hours.	Hours.	Hours.	Hours.	o	Hours.
Portland, Me.	19	16	5	24	n. 84 w.	29	Greenbay, Wis.	18	23	14	12	s. 8 e.	15
Northfield, Vt.	21	22	1	14	s. 55 w.	16	Duluth, Minn.	32	9	18	20	n. 5 w.	23
Boston, Mass.	24	11	9	23	n. 61 w.	26	Moorhead, Minn.	18	24	29	11	s. 72 e.	19
Nantucket, Mass.	20	19	15	25	n. 84 w.	10	Bismarck, N. Dak.	15	16	26	17	s. 84 e.	9
Woods Hole, Mass.*	6	14	5	12	s. 41 w.	11	Williston, N. Dak.	20	20	19	15	e.	4
Block Island, R. I.	19	15	14	30	n. 70 w.	16							
New Haven, Conn.	30	12	7	24	n. 43 w.	25	<i>Upper Mississippi Valley.</i>						
<i>Middle Atlantic States.</i>							St. Paul, Minn.	13	23	24	11	s. 34 e.	23
Albany, N. Y.	23	23	5	16	w.	11	La Crosse, Wis. †	9	16	8	6	s. 16 e.	7
Binghamton, N. Y. †	16	3	13	7	n. 25 e.	14	Davenport, Iowa	12	24	21	15	s. 27 e.	13
New York, N. Y.	22	20	8	25	n. 83 w.	17	Des Moines, Iowa	12	32	32	19	s. 23 w.	22
Harrisburg, Pa.	23	9	17	24	n. 27 w.	16	Dubuque, Iowa	13	29	14	18	s. 3 e.	16
Philadelphia, Pa.	23	15	13	24	n. 54 w.	14	Keokuk, Iowa	15	29	15	12	s. 12 e.	14
Atlantic City, N. J.	19	15	13	25	n. 73 w.	13	Cairo, Ill.	23	22	15	10	e.	5
Baltimore, Md.	20	16	16	20	n. 45 w.	6	Springfield, Ill.	9	27	24	11	s. 36 e.	22
Washington, D. C.	27	18	14	13	n. 6 e.	9	Hannibal, Mo. †	5	14	6	11	s. 29 w.	10
Lynchburg, Va.	22	15	21	16	n. 36 e.	9	St. Louis, Mo.	16	28	21	7	s. 49 e.	18
Norfolk, Va.	22	14	21	12	n. 67 e.	21	<i>Missouri Valley.</i>						
<i>South Atlantic States.</i>							Columbia, Mo.*	9	8	13	6	n. 82 e.	7
Charlotte, N. C.	17	26	26	5	s. 67 e.	23	Kansas City, Mo.	13	36	9	12	s. 7 w.	23
Hatteras, N. C.	26	12	22	14	n. 30 e.	16	Springfield, Mo.	7	33	29	7	s. 40 e.	24
Kittyhawk, N. C.	23	12	25	18	n. 92 e.	13	Lincoln, Nebr.	9	49	19	4	s. 24 e.	36
Raleigh, N. C.	22	17	17	13	n. 39 e.	6	Omaha, Nebr.	11	36	16	10	s. 13 e.	26
Wilmington, N. C.	25	16	22	18	n. 45 e.	13	Sioux City, Iowaf.	7	15	12	3	s. 48 e.	12
Charleston, S. C.	25	9	31	8	n. 55 e.	28	Pierre, S. Dak.	13	23	27	9	s. 61 e.	21
Augusta, Ga.	23	18	26	7	n. 77 e.	22	Huron, S. Dak.	15	26	28	5	s. 64 e.	26
Savannah, Ga.	24	13	26	9	n. 60 e.	22	Yankton, S. Dak.	13	31	12	10	s. 6 e.	19
Jacksonville, Fla.	31	9	28	6	n. 51 e.	35	<i>Northern Slope.</i>						
<i>Florida Peninsula.</i>							Havre, Mont.	14	10	7	40	n. 83 w.	33
Jupiter, Fla.	11	22	23	6	s. 45 e.	31	Miles City, Mont.	12	23	15	19	s. 22 w.	11
Key West, Fla.	18	18	34	5	n. 31 e.	35	Helena, Mont.	12	27	2	35	s. 11 w.	15
Tampa, Fla.	34	4	23	10	n. 31 e.	35	Rapid City, S. Dak.	17	19	17	25	s. 76 w.	8
<i>Eastern Gulf States.</i>							Cheyenne, Wyo.	23	23	8	22	s. 86 w.	14
Atlanta, Ga.	23	10	32	11	n. 31 e.	25	Lander, Wyo.	16	33	12	16	s. 18 w.	18
Pensacola, Fla.	29	14	29	8	n. 36 e.	19	North Platte, Nebr.	8	34	12	15	s. 7 w.	26
Mobile, Ala.	24	14	35	11	n. 54 e.	27	<i>Middle Slope.</i>						
Montgomery, Ala.	16	13	41	7	n. 84 e.	27	Denver, Colo.	17	30	10	12	s. 9 w.	18
Vicksburg, Miss.	19	11	29	4	n. 72 e.	26	Pueblo, Colo.	23	13	17	21	n. 20 w.	12
New Orleans, La.	29	7	34	6	n. 52 e.	36	Concordia, Kans.	6	41	11	9	s. 3 e.	25
<i>Western Gulf States.</i>							Dodge City, Kans.	8	41	10	5	s. 8 w.	24
Shreveport, La.	18	21	24	10	s. 78 e.	14	Wichita, Kans.	6	43	21	2	s. 27 e.	12
Fort Smith, Ark.	18	13	35	8	n. 80 e.	28	Oklahoma, Okla.	9	40	20	3	s. 29 e.	35
Little Rock, Ark.	21	16	24	16	n. 58 e.	28	<i>Southern Slope.</i>						
Corpus Christi, Tex.	23	9	30	8	n. 58 e.	26	Abilene, Tex.	10	34	24	9	s. 32 e.	28
Galveston, Tex.	26	12	27	5	n. 58 e.	26	Amarillo, Tex.	3	51	3	8	s. 6 w.	48
Palestine, Tex.	36	11	25	4	n. 40 e.	28	<i>Southern Plateau.</i>						
San Antonio, Tex.	30	15	24	1	n. 57 e.	28	El Paso, Tex.	12	13	43	5	e.	38
Chattanooga, Tenn.	26	11	23	15	n. 25 e.	17	Santa Fe, N. Mex.	13	23	28	8	s. 63 e.	22
Knoxville, Tenn.	32	7	18	17	n. 2 e.	25	Phoenix, Ariz.	18	6	30	17	n. 47 e.	18
Memphis, Tenn.	27	13	19	13	n. 27 e.	16	Yuma, Ariz.	17	16	15	25	n. 84 w.	10
Nashville, Tenn.	19	14	23	16	n. 30 e.	8	<i>Middle Plateau.</i>						
Lexington, Ky.	15	20	20	9	n. 77 e.	22	Carson City, Nev.	18	15	4	35	s. 81 w.	31
Louisville, Ky.	29	17	16	6	n. 40 e.	16	Winnemucca, Nev.	20	12	11	30	n. 67 w.	21
Indianapolis, Ind.	20	20	19	14	e.	22	Salt Lake City, Utah.	13	20	25	16	s. 48 e.	12
Cincinnati, Ohio.	16	20	28	7	s. 79 e.	21	<i>Northern Plateau.</i>						
Columbus, Ohio.	20	24	18	9	s. 66 e.	10	Baker City, Oreg.	24	26	8	15	s. 74 w.	7
Pittsburg, Pa.	31	7	15	17	n. 5 w.	24	Idaho Falls, Idaho.	18	36	2	10	s. 24 w.	20
Parkersburg, W. Va.	27	19	17	7	n. 51 e.	13	Spokane, Wash.	19	22	20	6	s. 78 e.	14
<i>Lower Lake Region.</i>							Walla Walla, Wash.	19	21	18	11	s. 74 e.	7
Buffalo, N. Y.	14	22	14	23	s. 48 w.	12	<i>North Pacific Coast Region.</i>						
Oswego, N. Y.	14	27	13	18	s. 21 w.	14	Fort Canby, Wash.	29	18	12	10	n. 10 e.	11
Rochester, N. Y.	15	22	11	31	s. 71 w.	21	Port Angeles, Wash. *	10	1	10	15	n. 29 w.	10
Erie, Pa.	12	29	16	13	s. 13 e.	18	Seattle, Wash.	16	21	8	21	s. 69 w.	14
Cleveland, Ohio.	14	29	26	6	s. 53 e.	21	Tacoma, Wash.	31	14	8	17	n. 18 w.	28
Sandusky, Ohio.	10	24	27	11	s. 49 e.	21	Tatoosh Island, Wash.	8	17	17	20	s. 18 w.	10
Toledo, Ohio.	16	17	23	20	s. 73 e.	3	Portland, Oreg.	25	17	11	30	n. 67 w.	21
Detroit, Mich.	19	22	17	16	s. 18 e.	3	Roseburg, Oreg.	23	6	22	13	n. 26 e.	19
<i>Upper Lake Region.</i>							<i>Middle Pacific Coast Region.</i>						
Alpena, Mich.	22	17	15	20	n. 45 w.	7	Eureka, Cal.	19	18	10	32	n. 87 w.	22
Grand Haven, Mich.	19	20	23	9	s. 86 e.	14	Redbluff, Cal.	27	19	17	10	n. 41 e.	11
Marquette, Mich.	23	24	10	19	s. 84 w.	9	Sacramento, Cal.	10	36	11	19	s. 17 w.	27
Port Huron, Mich.	19	31	9	11	s. 9 w.	12	San Francisco, Cal.	8	6	1	53	s. 88 w.	53
Sault Ste. Marie, Mich.	15	16	26	16	s. 84 e.	10	<i>South Pacific Coast Region.</i>						
Chicago, Ill.	11	22	18	19	s. 5 w.	11	Fresno, Cal.	36	2	2	42	n. 50 w.	52
Milwaukee, Wis.	14	26	19	13	s. 30 e.	14	Los Angeles, Cal.	15	7	14	35	n. 69 w.	23
							San Diego, Cal.	26	11	8	29	n. 55 w.	26
							San Luis Obispo, Cal.	20	21	6	22	s. 87 w.	16

* From observations at 8 p. m. only. † From observations at 8 a. m. only.

TABLE IX.—*Thunderstorms and auroras, September, 1897.*

States.	No. of stations.																														Total. No. Days.					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Alabama.....	53	T.	1	1																													14 0	7 0	T.	
Arizona.....	53	T.	7	3	2	3	4	3	4	2	2	6	2	3	1	2	1	6	3	3	4	5	4	4	1	3	7	2	1		88 0	27 0	T.			
Arkansas.....	61	T.																														15 0	8 0	T.		
California.....	181	T.	1																													33 0	13 0	T.		
Colorado.....	75	A.	3	1	2	4	1	1	9	5	3	7	5	15	5	18	4	2	1	2	3	4	4	8							108 0	25 0	T.			
Connecticut.....	14	T.																														26 0	7 0	T.		
Delaware.....	3	A.																														1 1	1 1	T.		
Dist. of Columbia	4	T.																														1 0	1 0	T.		
Florida.....	45	A.	1	3	4	5	14	9	6	11	6	7	7	2	1	3	5	5	2	5	4	9	2							121 0	26 0	A.				
Georgia.....	62	T.	2	2																											17 0	10 0	T.			
Idaho.....	80	T.																													37 1	13 8	T.			
Illinois.....	93	A.	22	13	1																										70 5	28 0	A.			
Indiana.....	54	A.	12																												16 0	4 0	A.			
Indian Territory.	7	A.																																		T.
Iowa.....	123	T.	15	1																												59 3	28 0	A.		
Kansas.....	85	T.																														16 0	4 0	T.		
Kentucky.....	52	T.	2	2																												20 0	8 0	T.		
Louisiana.....	50	T.	2	2	4	3	2	3	3	4	5																			45 0	14 0	A.				
Maine.....	14	A.																														1 0	5 0	T.		
Maryland.....	35	A.	1	4																												20 2	8 0	A.		
Massachusetts...	24	A.	1																													30 0	8 0	A.		
Michigan.....	112	A.	9	2	1	4	5																								50 3	23 0	T.			
Minnesota.....	69	T.	4		11	5	4	1																							1 1	1 0	T.			
Mississippi.....	46	T.	1	2	2	1	1	1																							17 0	10 0	A.			
Missouri.....	95	T.																														56 8	28 0	T.		
Montana.....	37	T.	1	2																												18 1	11 1	T.		
Nebraska.....	143	A.	1																													45 6	14 6	A.		
Nevada.....	48	A.																														15 0	7 0	A.		
New Hampshire.	14	A.																														15 0	4 0	T.		
New Jersey.....	55	A.	21	1																												60 2	18 2	A.		
New Mexico.....	39	T.	3	2	2																										37 0	15 0	T.			
New York.....	103	T.	3	10		1	1	4																							55 11	30 0	A.			
North Carolina..	59	T.	11	8	3																										57 0	30 0	T.			
North Dakota...	46	A.	3																													11 5	10 5	A.		
Ohio.....	135	A.	39																													28 3	14 3	A.		
Oklahoma.....	23	A.																														0 0	0 0	T.		
Oregon.....	62	T.																														21 0	9 0	A.		
Pennsylvania....	105	T.	4	14																												67 11	30 0	T.		
Rhode Island....	5	T.	1																													22 0	2 0	T.		
South Carolina..	43	T.	4	2	2	2																									37 11	11 0	T.			
South Dakota....	44	A.	2	1	5	1	1																								34 0	13 0	T.			
Tennessee....	65	A.	1	7																												23 0	8 0	A.		
Texas.....	85	A.	3	3	3	1	1	1	1	4	2	2																		81 12	32 0	T.				
Utah.....	41	T.	1	3	1	1	2																								60 23	23 0	T.			
Vermont.....	13	T.																														10 3	3 2	A.		
Virginia.....	49	T.	6	1																												10 0	4 0	A.		
Washington....	50	T.	2	1	1	1	1	1																							12 1	9 0	T.			
West Virginia...	35	A.	1	2	1																											18 1	5 0	A.		
Wisconsin....	61	T.	11		1	2	1																								64 9	33 6	A.			
Wyoming.....	14	A.																														6 0	5 0	A.		
Sums	2,810	T.	167	119	81	44	48	37	34	56	54	84	65	49	123	54	95	259	70	29	37	27	18	19	28	29	21	30	18	15	3	1,732	52	T.		

TABLE X.—Hourly sunshine as deduced from sunshine recorders, September, 1897.

Stations.	Instrument.	Percentages for each hour of local mean time ending with the respective hour.																Hours of sunshine.			
		A. M.								P. M.								Total.			
		5	6	7	8	9	10	11	Noon	1	2	3	4	5	6	7	8	Actual.	Possible.	Percent of possible.	Personal estimate.
Albany, N. Y.	T.	46	46	63	77	87	94	97		96	98	99	88	74	55	46		Hours.	Hours.		
Atlanta, Ga.	T.	60	57	58	65	70	74	75		73	69	63	68	57	54	53		204.7	205.0	79	60
Atlantic City, N. J.	P.	72	70	77	86	85	78	77		80	80	82	81	82	80	83		237.8	237.8	61	61
Baltimore, Md.	T.	53	60	66	72	78	87	82		82	83	88	82	66	57	57		238.4	238.4	67	67
Binghamton, N. Y.	T.	34	39	45	55	75	82	82		81	83	74	69	68	63	69		277.0	277.4	74	61
Bismarck, N. Dak.	P.	62	66	72	78	77	79	77		82	82	83	80	81	82	69		251.1	274.5	67	61
Boston, Mass.	T.	58	68	63	73	72	80	82		82	81	86	85	82	82	84		292.7	278.9	78	73
Buffalo, N. Y.	T.	33	30	46	59	70	73	83		85	84	78	76	72	68	63		258.0	255.0	69	56
Charleston, S. C.	T.	57	53	61	75	66	63	62		84	54	44	43	49	49	49		213.5	271.4	73	64
Chattanooga, Tenn.	T.	61	68	68	83	87	89	90		81	73	74	68	61	71	71		284.4	272.0	72	66
Cheyenne, Wyo.	P.																				58
Chicago, Ill.	T.	43	49	54	59	71	70	78		86	80	85	86	86	71	75		244.5	274.5	71	71
Cincinnati, Ohio	T.	51	60	62	80	92	96	96		97	97	94	94	90	87	87		307.4	278.4	82	82
Cleveland, Ohio	T.	55	55	62	67	81	83	95		86	86	85	77	69	60	54		271.9	274.5	84	82
Columbus, Ohio	T.	72	78	83	92	94	95	93		87	88	83	87	87	86	80		337.5	273.6	86	78
Denver, Colo.	P.	69	60	63	69	75	84	81		80	76	75	66	64	55	29		256.7	273.6	69	47
Des Moines, Iowa	T.	68	75	74	78	83	86	86		88	89	87	85	82	82	76		310.5	274.5	83	80
Detroit, Mich.	T.	41	46	73	80	85	83	87		87	87	83	76	68	57	39		279.8	274.5	75	69
Dodge City, Kans.	P.	83	88	83	87	92	93	91		90	90	88	85	82	73	81		320.4	273.0	86	73
Dubuque, Iowa*	T.																				
Eastport, Me.	P.	43	51	58	65	67	61	49		50	51	54	52	51	43	51		202.7	275.8	54	33
Erie, Pa.	T.	46	51	56	67	72	72	87		91	85	80	69	68	68	68		269.4	274.5	72	59
Eureka, Cal.	P.	6	20	23	50	57	57	56		51	58	56	48	47	50	71		180.4	274.0	48	50
Fresno, Cal.	T.	74	74	77	82	85	97	100		96	97	96	95	94	92	94		338.5	272.6	91	85
Galveston, Tex.	P.	33	62	77	82	82	85	86		82	85	87	87	85	85	85		239.7	270.4	78	73
Harrisburg, Pa.	T.	62	62	65	73	78	87	86		89	92	90	90	85	70	64		306.3	273.6	82	70
Helena, Mont.	T.	67	70	84	84	82	77	68		68	64	63	63	52	52	50		260.9	276.9	69	67
Idaho Falls, Idaho	T.	41	33	37	58	75	77	75		80	76	76	76	67	55	46		233.6	275.0	62	60
Indianapolis, Ind.	T.	73	87	87	92	92	97	97		91	89	84	83	80	75	75		338.2	273.6	91	82
Kansas City, Mo.	P.	71	80	85	91	96	98	93		84	83	73	80	81	85	84		313.0	273.4	84	80
Key West, Fla.	T.	32	45	58	71	78	74	69		72	73	65	53	34	22	3		216.2	269.0	59	33
Little Rock, Ark.	T.	37	47	56	60	91	93	96		98	99	97	95	81	78	71		337.3	272.0	91	74
Los Angeles, Cal.	P.	35	39	42	55	73	91	93		93	94	90	90	91	91	100		291.2	271.8	78	65
Louisville, Ky.	T.	51	51	59	90	90	93	93		100	95	93	95	95	89	83		347.0	273.0	93	84
Minneapolis, Minn.	T.	38	37	53	66	69	76	77		74	74	73	73	76	63	45		239.1	275.8	64	54
Nashville, Tenn.	T.	93	93	89	91	96	97	96		98	93	93	93	84	84	98		337.0	273.2	91	86
New Orleans, La.	T.	45	50	49	55	62	65	64		71	70	63	63	58	45	43		311.3	270.8	57	58
New York, N. Y.	T.	34	46	71	73	76	74	71		76	81	81	83	70	47	41		261.4	274.0	70	67
Northfield, Vt.	P.	35	36	46	55	57	61	62		58	62	61	56	58	44	53		202.8	275.4	54	47
Omaha, Nebr.	P.	73	73	81	82	89	97	97		98	98	98	90	86	81	69		324.8	274.0	87	79
Parkersburg, W. Va.	T.	91	93	93	91	90	93	94		89	89	84	84	85	86	98		219.6	273.4	86	77
Philadelphia, Pa.	T.	67	63	71	77	75	81	85		86	85	86	86	84	84	87		247.4	273.6	82	63
Phoenix, Ariz.	P.	54	63	77	84	85	90	91		91	92	91	91	74	70	58		304.8	271.4	83	68
Pittsburg, Pa.	T.	16	17	18	26	44	53	54		71	78	74	68	63	57	49		191.0	274.0	51	58
Portland, Me.	T.	35	49	75	79	86	91	87		87	88	84	84	80	67	49		291.4	275.4	75	68
Portland, Oreg.	T.	19	23	27	30	36	40	58		68	63	59	54	49	43	39		168.1	276.1	45	51
Raleigh, N. C.	T.	25	29	32	32	32	35	47		61	59	56	51	55	51	59		162.1	276.1	43	51
Rochester, N. Y.	T.	62	63	84	85	83	93	94		91	83	82	88	83	83	87		306.7	272.2	83	69
St. Louis, Mo.	T.	44	40	38	50	51	61	54		53	53	57	53	58	55	67		202.4	275.0	54	52
St. Paul, Minn.	P.	46	58	66	71	73	77	75		72	75	74	75	78	67	46		265.2	275.8	71	60
Salt Lake City, Utah	P.	28	33	30	49	72	89	93		97	98	93	94	93	88	91		279.4	271.4	75	63
San Diego, Cal.	T.	39	35	44	61	75	81	84		90	89	89	85	85	85	91		303.1	273.0	71	63
San Francisco, Cal.	P.	40	56	70	76	83	79	77		81	87	87	89	89	89	89		334.0	272.2	63	49
Savannah, Ga.	P.	48	48	60	63	67	67	57		55	53	54	51	52	39	43		205.6	271.4	55	51
Seattle, Wash.	T.	12	13	17	26	38	44	52		61	58	56	50	40	41	16		150.9	277.5	40	44
Spokane, Wash.	T.	32	40	50	59	62	68	75		72	89	86	59	43	28	10		210.4	277.5	56	50
Tampa, Fla.	T.	43	48	39	54	61	63	71		65	60	44	38	30	27	6		178.2	269.6	48	46
Vicksburg, Miss.	T.	55	57	68	89	92	94	94		93	88	79	73	68	42	27		226.3	271.4	71	78
Washington, D. C.	P.	68	66	71	73	77	80	85		88	88	81	84	82	89	89		206.0	273.4	79	73
Wilmington, N. C.*	T.																				

*Instrument out of order.

TABLE XI.—Accumulated amounts of precipitation for each 5 minutes, for storms in which the rate of fall equaled or exceeded 0.25 in any 5 minutes, or 0.75 in 1 hour during September, 1897, at all stations furnished with self-registering gauges.

Station.	Date.	Total duration.		Total amt. of precip- itation.	Excessive rate.		Amount be- fore exces- sive began.	Depths of precipitation (in inches) during periods of time as indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Albany, N. Y.	1	2	3	4	5	6	7													0.26	
Atlanta, Ga.	23			0.18															0.06		
Atlantic City, N. J.	22			0.23																	
Baltimore, Md.	16			0.71																0.62	
Binghamton, N. Y.	2			1.01																0.39	
Bismarck, N. Dak.	10			0.06																	
Boston, Mass.	20	8.37 p.m.	6.25 p.m.	0.70	4.35 p.m.	5.00 p.m.	0.09	0.06	0.12	0.24	0.41	0.47	0.15								
Buffalo, N. Y.	13			0.17																	
Cairo, Ill.	16			0.28																	
Charleston, S. C.	21-22	9.50 p.m.	8.25 a.m.	1.34	7.05 a.m.	7.40 a.m.	0.32	0.06	0.11	0.17	0.26	0.39	0.61	0.75						0.31	
Chicago, Ill.	16			0.40																0.23	
Cincinnati, Ohio	16			0.48																0.23	
Cleveland, Ohio	16			0.33																0.11	
Columbus, Ohio	16			0.47																0.11	
Denver, Colo.	15-16			0.36																0.61	
Des Moines, Iowa	15			0.31																0.29	
Detroit, Mich.	1			0.66																0.65	
Dodge City, Kans.	1			0.29																0.24	
Duluth, Minn.	14-15			1.44																0.31	
Eastport, Me.	24			0.31																0.31	
Erie, Pa.	1-2			0.35																0.24	
Galveston, Tex.	2	2.36 p.m.	5.19 p.m.	1.06	2.40 p.m.	3.20 p.m.	0.01	0.11	0.21	0.24	0.31	0.34	0.45	0.68	0.77	0.80				0.31	
Harrisburg, Pa.	23-24			0.81																0.10	
Hatteras, N. C.*	3			1.02																0.34	
Huron, S. Dak.	13			0.48																0.10	
Idaho Falls, Idaho	3			0.51																0.34	
Indianapolis, Ind.	1	3.15 p.m.	4.40 p.m.	0.49	3.28 p.m.	3.41 p.m.	0.01	0.08	0.31	0.37	0.60	0.85	1.05	1.18	1.28	1.35					
Jacksonville, Fla.	8	1.50 p.m.	5.45 p.m.	2.26	3.02 p.m.	3.52 p.m.	0.50	0.10	0.25	0.35	0.44	0.60	0.85	1.05	1.18	1.28	1.35				
Jupiter, Fla.	4	8.50 p.m.	11.00 p.m.	1.84	7.03 a.m.	7.55 a.m.	0.85	0.07	0.15	0.22	0.25	0.28	0.31	0.38	0.46	0.55	0.70				
Do	6	11.30 a.m.	5.45 p.m.	2.38	6.45 p.m.	7.25 p.m.	0.53	0.18	0.44	0.71	0.87	0.90	1.06	1.13	1.22	1.26					
Do	6-7	8.10 p.m.	D. N.	2.58	2.05 p.m.	3.00 p.m.	0.42	0.21	0.46	0.69	1.03	1.36	1.56	1.67	1.75	1.83	1.90				
Kansas City, Mo.	14-15			1.06	9.15 p.m.	9.45 p.m.	0.38	0.07	0.32	0.60	0.86	0.94	1.02	1.06					0.44		
Key West, Fla.	6	3.58 p.m.	8.30 p.m.	1.28	5.34 p.m.	5.45 p.m.	0.40	0.32	0.55	0.62									0.42		
Lincoln, Nebr.	16			1.06	9.55 p.m.	10.10 p.m.	0.40	0.25	0.37	0.42									0.23		
Little Rock, Ark.	13			0.17															0.12		
Louisville, Ky.	16			0.70															0.38		
Memphis, Tenn.†				0.27															0.26		
Milwaukee, Wis.	16			0.46															0.35		
Montgomery, Ala.	13			0.36															0.35		
Nantucket, Mass.	20			0.09																	
Nashville, Tenn.	2			0.21																	
New Orleans, La.	17	1.55 p.m.	8.15 p.m.	0.56	2.29 p.m.	3.20 p.m.	0.04	0.09	0.22	0.32	0.43	0.49	0.59	0.68	0.78	0.95	0.98	1.20	0.53		
New York, N. Y.	2			0.97															0.23		
Norfolk, Va.	22-23			0.58															0.12		
Northfield, Vt.	19-20			0.87															0.38		
Oklahoma, Okla.	14			0.12															0.07		
Omaha, Nebr.	15-16	7.40 p.m.	9.15 a.m.	1.14	1.40 p.m.	2.40 p.m.	0.14	0.08	0.17	0.25	0.32	0.33	0.44	0.49	0.55	0.60	0.64	0.73	0.80		
Parkersburg, W. Va.	16			0.31															0.65		
Philadelphia, Pa.	2			0.63															0.38		
Pittsburg, Pa.	16			0.33															0.46		
Portland, Me.	20			0.91															0.10		
Portland, Oreg.	6			0.50															0.06		
Raleigh, N. C.	22-23			0.47															0.22		
Rochester, N. Y.	20			0.12															2.25		
St. Louis, Mo.	16			0.07																	
St. Paul, Minn.	9-10			0.47																	
Salt Lake City, Utah.	12			0.34																	
San Diego, Cal.	18			T.																	
San Francisco, Cal.	30			0.08															0.02		
Savannah, Ga.	21-22	4.05 a.m.	10.15 a.m.	2.97	12.20 a.m.	1.50 a.m.	1.96	0.05	0.10	0.19	0.25	0.30	0.35	0.40	0.43	0.45	0.49	0.56	0.80	0.95	1.00
Seattle, Wash.	2-3			0.94															0.30		
Spokane, Wash.	7-8			0.62															0.12		
Tampa, Fla.	16	1.50 p.m.	2.12 p.m.	0.81	1.53 p.m.	2.03 p.m.	0.05	0.40	0.80	0.50	0.80	1.00	1.15	1.25	†	†	†	†	2.25		
Do †	20-21	11.33 a.m.	D. N.	6.56	9.00 p.m.	9.35 p.m.	3.65	0.10	0.30	0.50	0.00								0.30		
Vicksburg, Miss.	12-13			0.09															0.30		
Washington, D. C.	23			0.65															0.27		
Wilmington, N. C.	19			0.51															0.11		
Yankton, S. Dak.	10			0.50																	

* Self register out of order. † No precipitation during the month. ‡ Record defective during greater part of storm. From 3 to 4 p.m. 1.15 inches fell with a maximum fall of 0.60 inch in ten minutes, also from 9 p.m. to 12 midnight, estimated that 3 inches fell.

TABLE XIII.—*Excessive precipitation, by stations, for September, 1897.*

Stations.	Monthly rainfall 10 inches, or more.		Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.	
	Amt.	Day.	Amt.	Time.	Amt.	Day.
<i>Arizona.</i>	<i>Inches.</i>	<i>Inches.</i>				
Glendale			1.00	1 00		11
Mount Huachuca			1.48	1 00		13
Phoenix			1.89	0 55		11
<i>Arkansas.</i>						
Picayune			1.70	1 30		9
<i>Colorado.</i>						
Gold Hill	2.63	11				
<i>Florida.</i>						
Amelia	20.88	12.40	19-22			
Do.		3.82	28-29			
Bartow	11.94	4.38	20			
Boca Raton	15.97					
Brooksville		4.40	20-21			
Carabelle	10.60	5.80	11-12			
Do.		3.90	28			
Clermont		4.94	20-21			
Earnestville	10.02	5.10	20-21	1.51	1 30	5
Eustis	12.72	5.70	20-21			
Federal Point	17.30	5.88	20-21	1.01	1 00	18
Do.		3.92	28-29			
Fort Meade	16.98	8.28	4			
Do.		4.34	20			
Frostproof	10.01	2.87	20			
Grasmere	10.96	5.07	20-21			
Huntington	12.29	5.74	20-21			
Jacksonville	16.23	5.35	21-22	1.40	1 00	8
Jupiter	18.09	3.11	4-5	1.01	1 25	4
Do.		4.69	6-7	2.01	1 00	6
Key West		2.64	20-27	1.23	1 00	
Kissimmee	15.20	9.50	20-21			
Lemon City	20.35	10.35	4-7			
Maccennny		2.86	20-21			
Manatee		3.00	20			
Merritts Island	17.97	4.30	20-21	1.04	0 45	8
Do.		5.43	28-29			
Mullet Key		3.80	20-21			
Myers	10.45					
New Smyrna	17.03	8.14	20-21			
Do.		3.36	28-29			
Ocala		5.85	20-21			
Orange City	14.03	3.49	11			
Orange Park	12.70	4.00	21			
Orlando	15.77	4.38	11			
Do.		7.04	20-21			
Oxford	14.00	3.00	6	2.00	2 00	11
Do.		7.50	20-21			
Plant City		4.35	20-21			
St. Francis	12.87	2.61	11			
Do.		6.07	20-21			
St. Francis Barracks	12.97	4.45	20-21			
Do.		2.55	18			
Sebastian	23.01	6.11	24-25			
Switzerland		5.51	20-21			
Tampa	10.73	6.56	20-21	1.35	0 50	8
Do.			1.45	1 00		20
Tarpon Springs		5.60	20-21			
<i>Georgia.</i>						
Augusta		8.17	21-22			
Brunswick	11.94	4.38	21			
Camak		3.30	12			
Fleming	11.24	3.00	18			
Do.		2.50	21	2.50	0 40	21
Jesup		4.40	18-19			
Savannah		2.88	21-22			
Washington		3.45	12			
<i>Iowa.</i>						
Ames		2.65	16			
Atlantic		3.30	16			
Centerville			2.20	0 30		12
Eldora		2.50	16			
Grundy Center			1.60	0 50		16
Hampton		2.53	1			
Hopeville		3.14	15-16			

TABLE XII.—*Excessive precipitation—Continued.*

Stations.	Monthly rainfall 10 inches, or more.		Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.	
	Amt.	Day.	Amt.	Time.	Amt.	Day.
<i>Iowa—Continued.</i>						
North McGregor			2.70	1-2		
Do.			2.81	15-16		
Osage			2.88	1		
Wilton Junction			2.91	1-2		
<i>Louisiana.</i>						
New Orleans					1.20	
Port Eads			5.16	5	1 00	17
<i>Minnesota.</i>						
Bonniwell			4.00	1		
Glencoe			2.68	1		
Mapleplain					1.76	
Morris			3.00	12	0 25	4
Rolling Green					1.00	0 20
<i>Mississippi.</i>						
Windham					1.27	
<i>Nebraska.</i>						
Arapaho			3.50	10	3.50	2 00
Ashland			3.20	16		
Burchard			3.50	16		
Dawson			2.55	16		
Nemaha			3.55	10-11		
Odell			3.95	15	3.95	1 20
O'Neill			2.82	8-9		
Weeping Water			2.56	16		
<i>New York.</i>						
Bedford					1.00	0 50
Honeymead Brook					1.00	1 00
<i>Ohio.</i>						
Atwater					1.00	1 00
<i>Oklahoma.</i>						
Hennessey			3.50	10		
Do.			4.00	16		
Kingfisher			4.62	10	4.63	2 30
Prudence			2.50	16		
<i>Pennsylvania.</i>						
Chambersburg			2.58	23		
<i>Rhode Island.</i>						
Block Island			2.56	2		
<i>South Carolina.</i>						
Batesburg			3.00	23		
Blackville			2.89	22-23		
Conway					1.39	0 45
Edisto			3.78	22-23		
Mount Carmel			3.78	23-23		
Pinopolis			2.75	21-22		
St. Matthews			4.48	22-23	1.04	1 00
Spartanburg					1.10	0 30
Trenton			2.88	22		
Tril			3.37	21-22		
<i>Tennessee.</i>						
Elizabethhton					2.04	0 25
New Market			2.52	17		
<i>Texas.</i>						
Arthur City			2.65	9-10		
Austin			2.50	13		
Burnet			3.17	13		
Childress					1.08	0 45
Colmesneil			3.03	12		
Conroe			4.03	12		
Duval			2.70	13		
Forestburg					1.75	0 30
Georgetown			4.05	13		
Golindo			2.80	13		
Hewett			2.90	13		
Luling					1.09	1 00
Temple			3.00	13		
Weatherford			2.70	13-14		
<i>Virginia.</i>						
Callaville					1.01	1 00
<i>Wisconsin.</i>						
Prairie du Chien			2.05	1		
Do.			2.81	15-16		
Spooner			2.75	3-4		